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108-1064SA000

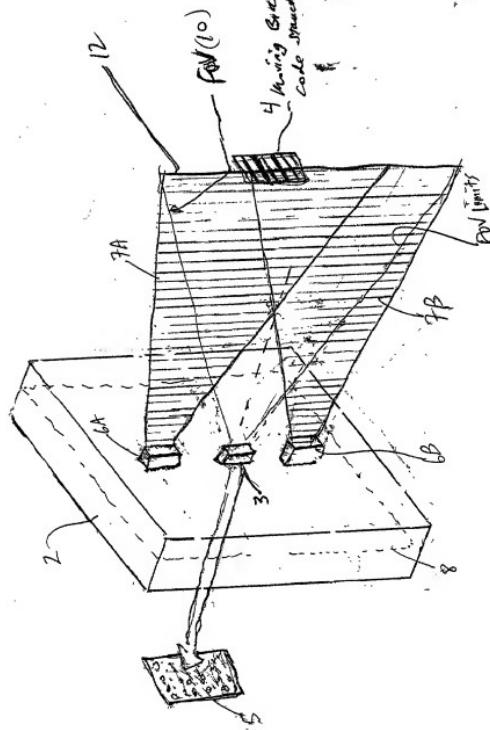


FIG. 1A

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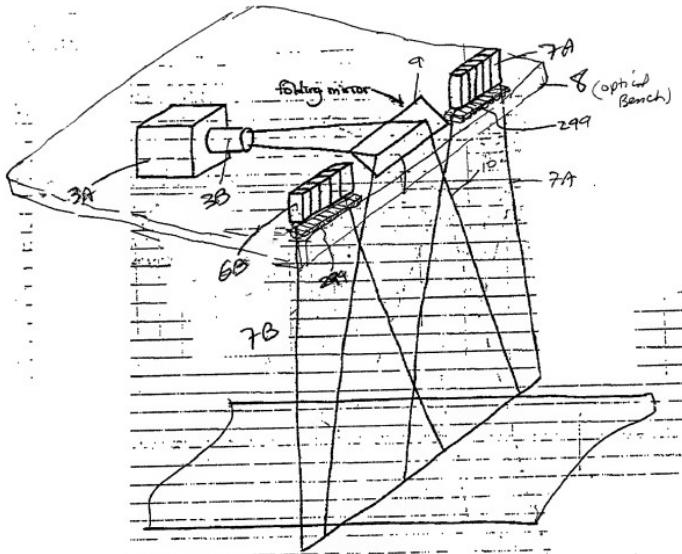
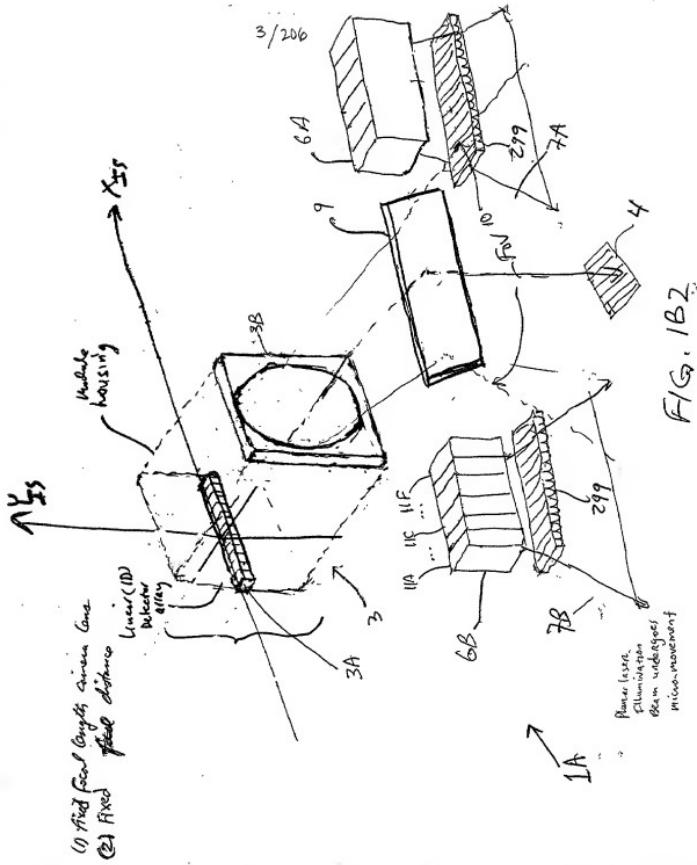


FIG. 1B1

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TO STATE = DETERMINED



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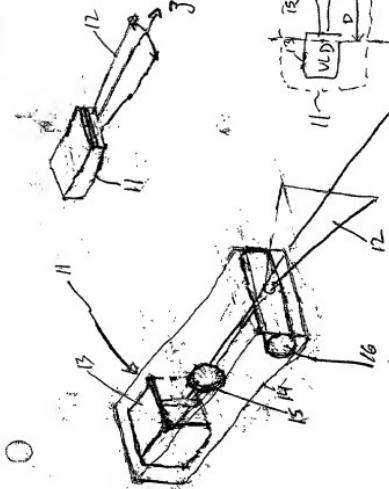


FIG. 1C

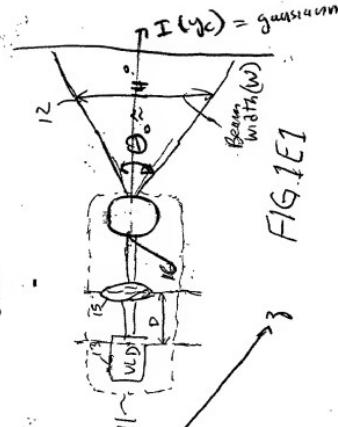


FIG. 1E1

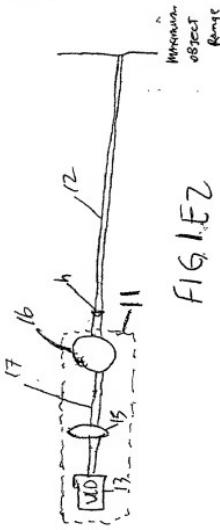


FIG. 1.E2

FIGURE 10 DETAIL

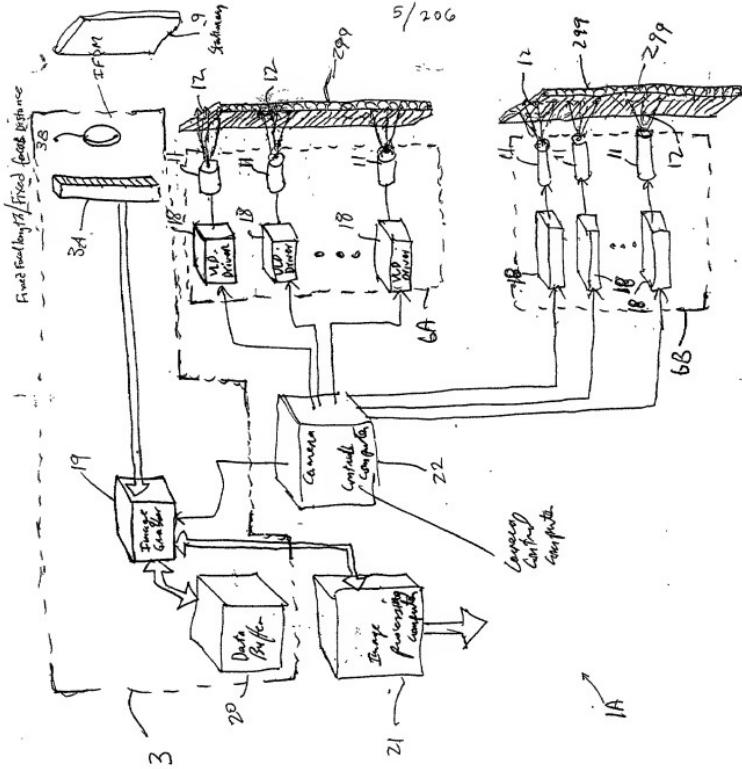


FIG. 10F

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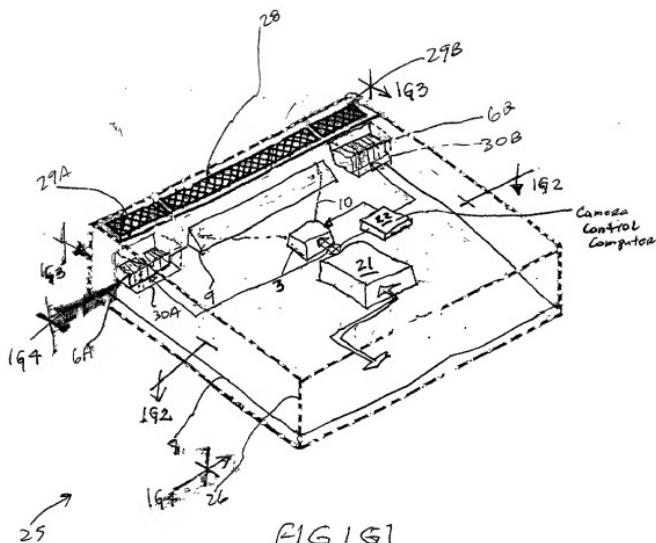


FIG 1G1

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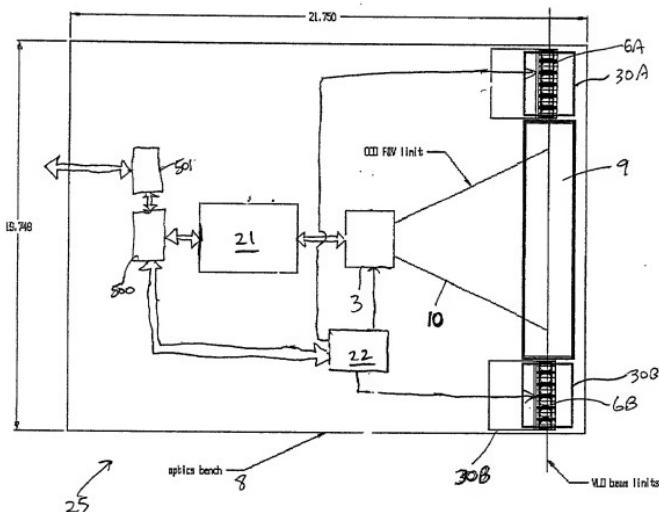
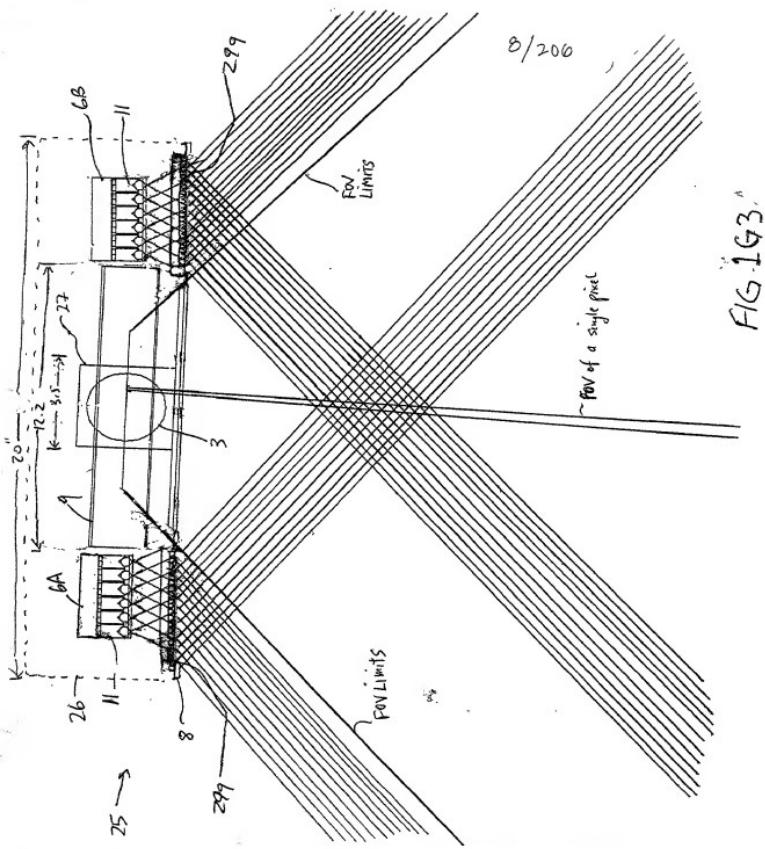


FIG. 1G2



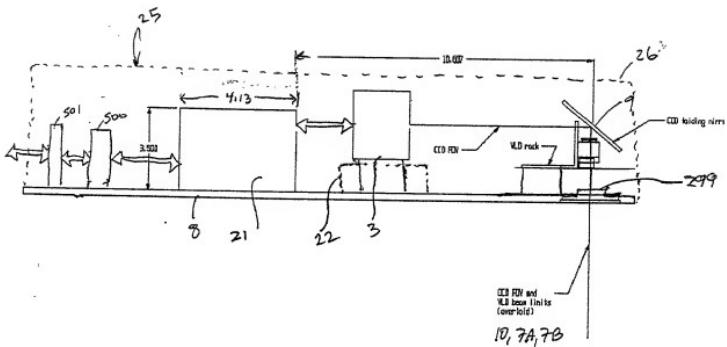
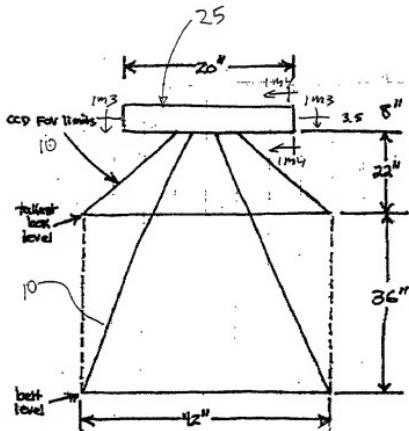


FIG. 164.

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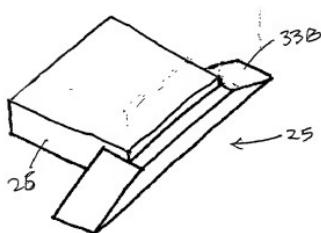
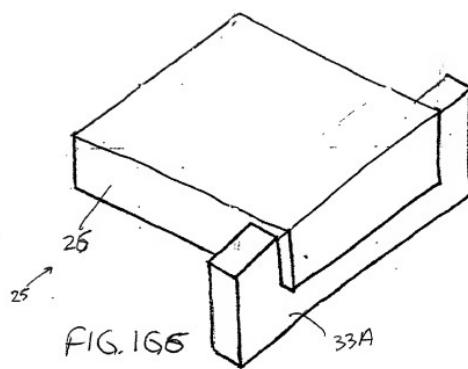


\* Fixed Field of Field

FIG. 1G5

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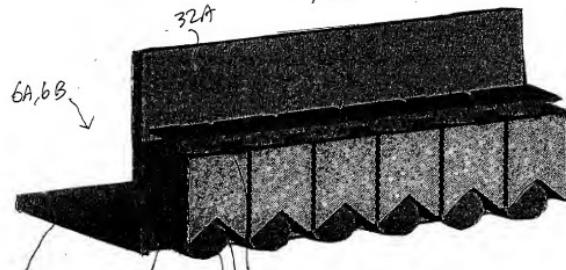


FIG. 1G 8

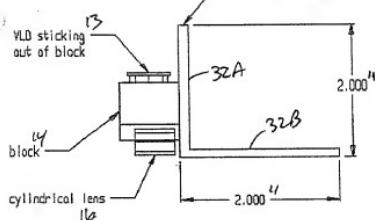


FIG. 1G.9

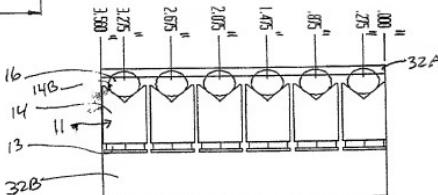


FIG. 1G10

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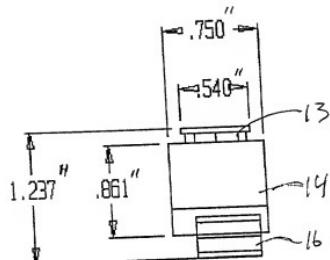


FIG. 1G11

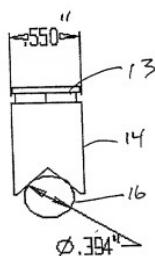


FIG. 1G12

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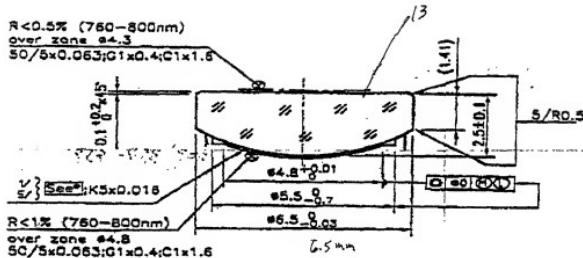


FIG. 1G 13

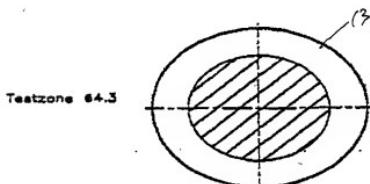


FIG. 1G 14

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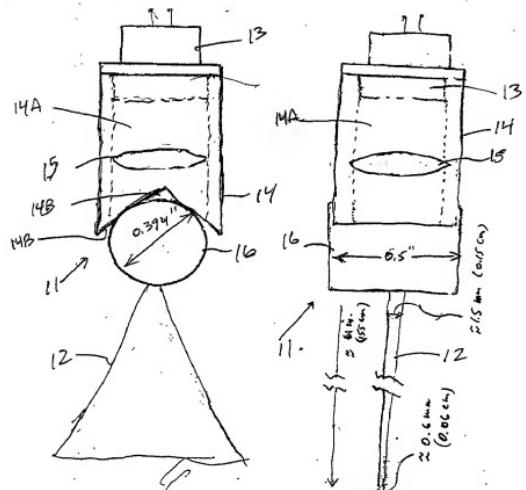


FIG. 1G15A

FIG. 1G15B  
furthest object/working distance

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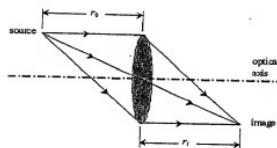


FIG. 1H1

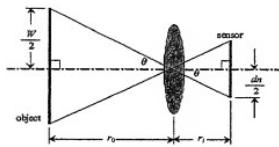


FIG. 1H2

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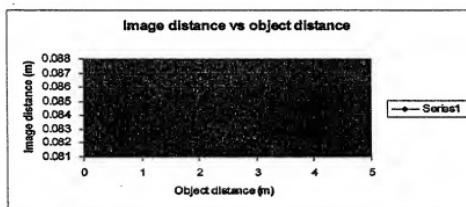


FIG. 1H3

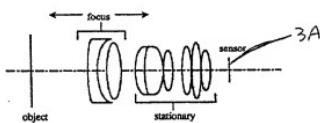


FIG. 1H4

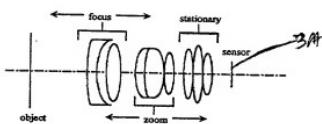
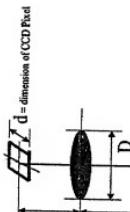


FIG. 1H5

## IMAGE-DETECTOR

$$E_{\text{CCD}} = \text{CCD irradiance} \quad (\text{in Watts / meter squared})$$



$f$  = Lens Focal Length

$F$  = Lens f-stop

$i_0$  = Image distance

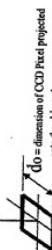
$r_0$  = Working distance

$m$  = Lens Magnification

### Assumptions:

- 1) Objects are Lambertian Scatterers
- 2) Object Reflectance = 100%
- 3) Optical Transmittance = 100%
- 4) Square CCD pixels

$$E_{\text{obj}} = \text{Evenly distributed irradiance} \quad (\text{in Watts / meter squared})$$



CCD-Based Scanner

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FIG. 1H6

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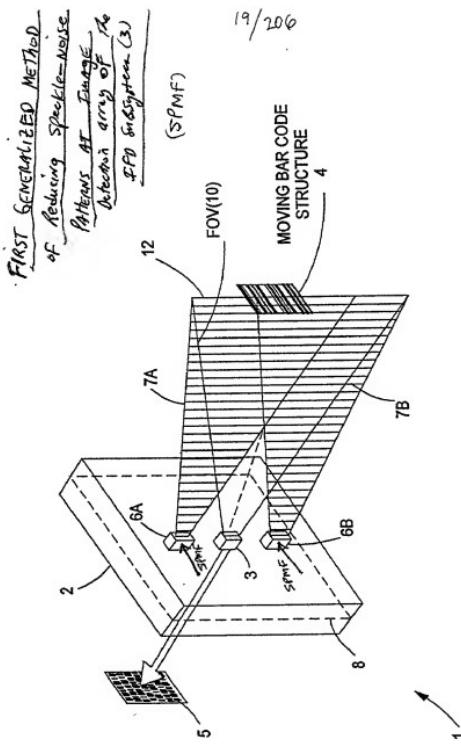


FIG. 111

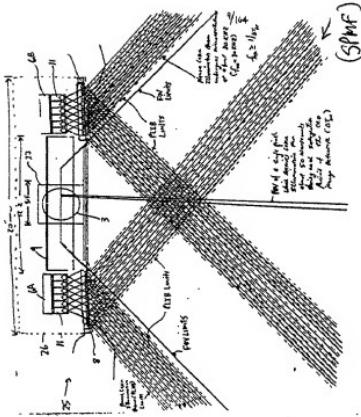


FIG. 11:2A  
Run to object illumination

The First Generalized Speckle-Noise Pattern Reduction Method  
Of The Present Invention

Prior to illumination of the target with the planar laser illumination beam (PLIB), modulate the spatial phase of the transmitted PLIB along the planar extent thereof according to a spatial phase modulation function (SPMF) so as to modulate the phase along the wavefront of the transmitted PLIB and produce numerous substantially different time-varying speckle-noise patterns at the image detection array of the IFD Subsystem during the photo-integration time period thereof.

A

Temporally average the numerous substantially different time-varying speckle-noise patterns produced at the image detection array in the IFD Subsystem during the photo-integration time period thereof, so as to thereby reduce the power of the speckle-noise pattern observed at the image detection array.

B

FIG. 1I2B

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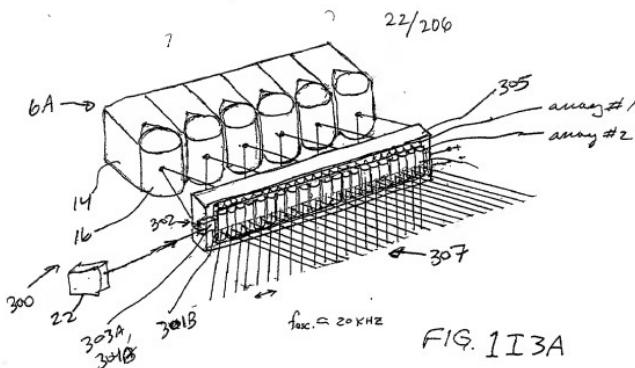


FIG. 1I3A



FIG. 1I3B

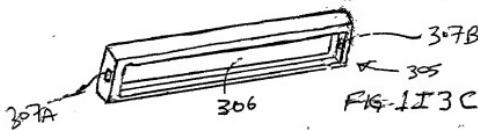


FIG. 1I3C

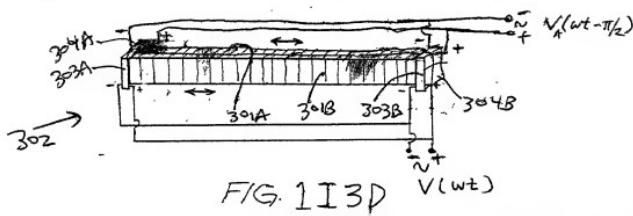


FIG. 1I3D

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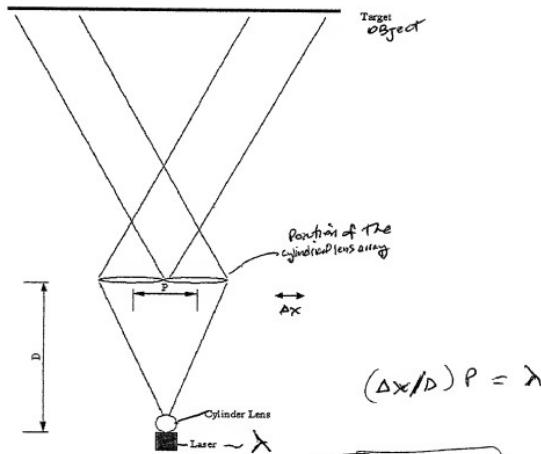


FIG. 113E

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00833136-1106211

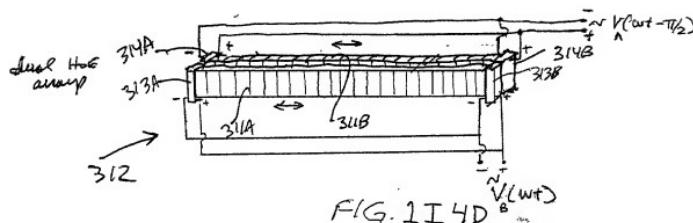
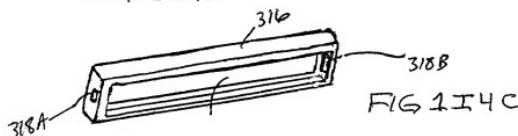
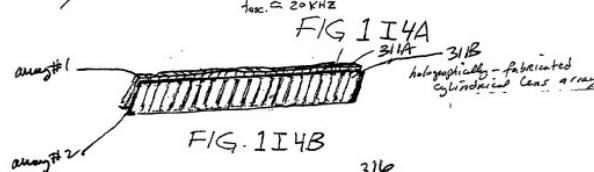
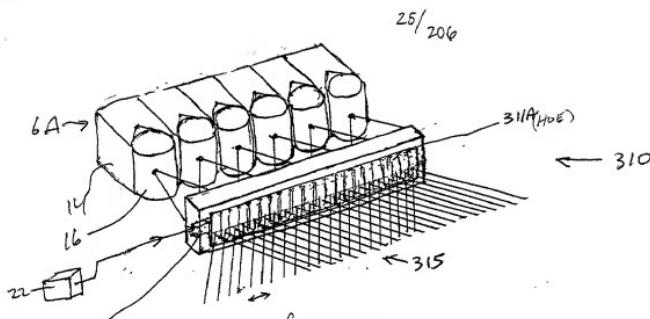


FIG. 1I3F



FIG 1I3G

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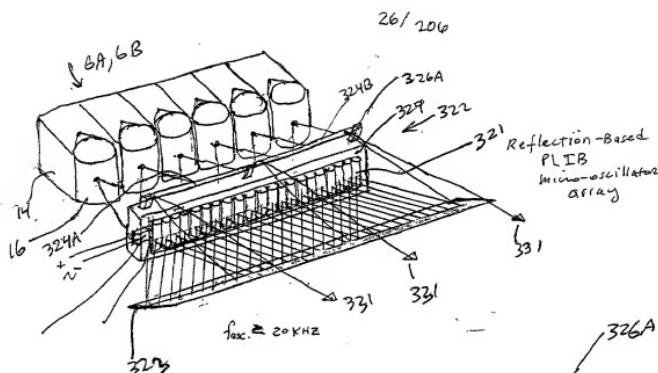


FIG. 1I5A

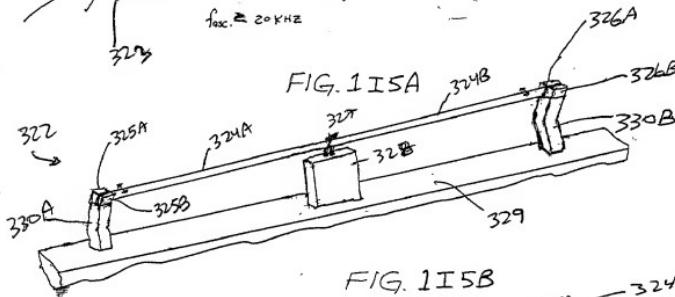


FIG. 1I5B

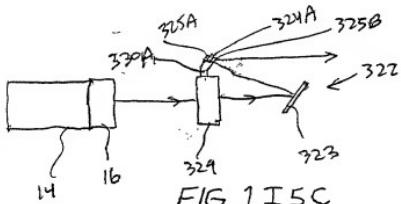


FIG. 1I5C

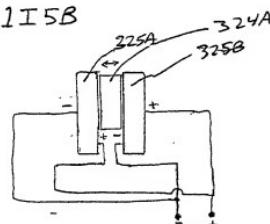


FIG. 1I5D

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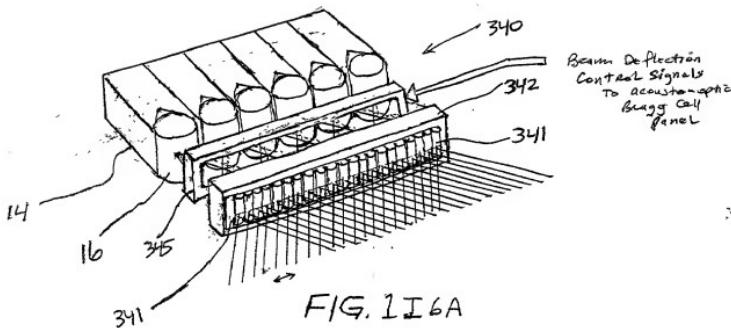


FIG. II6A

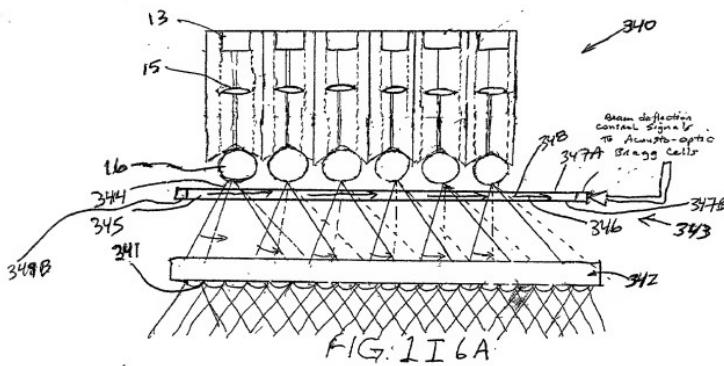


FIG. II6A

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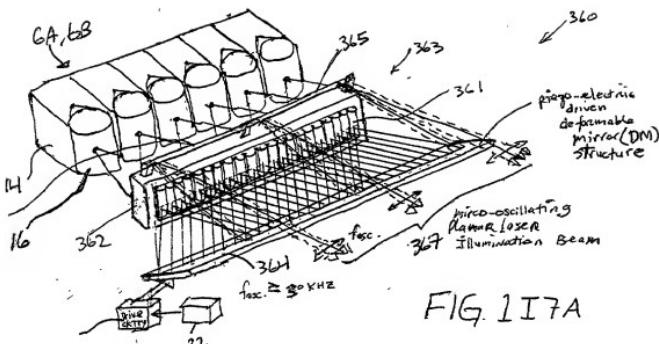


FIG. II7A

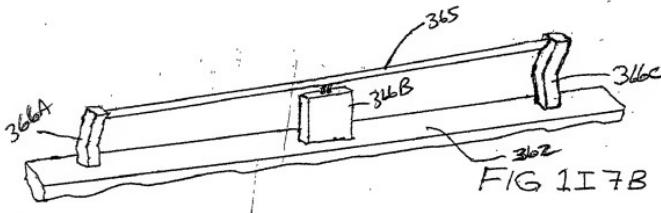


FIG. II7B

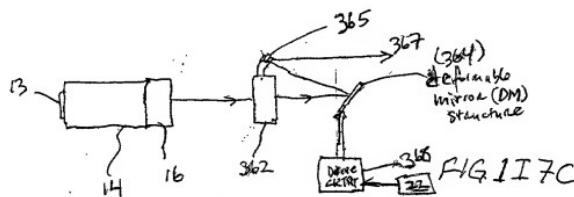


FIG. II7C

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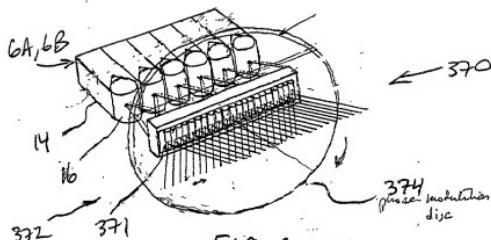


FIG. 1I8A

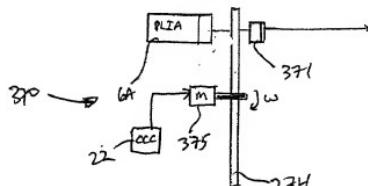


FIG. 1I8B

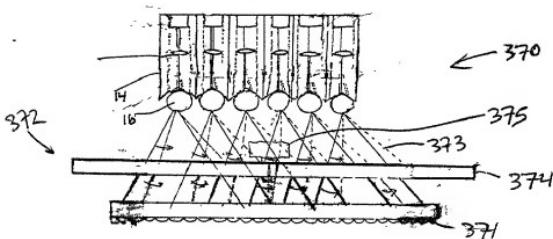


FIG. 1I8C

FIG 118E

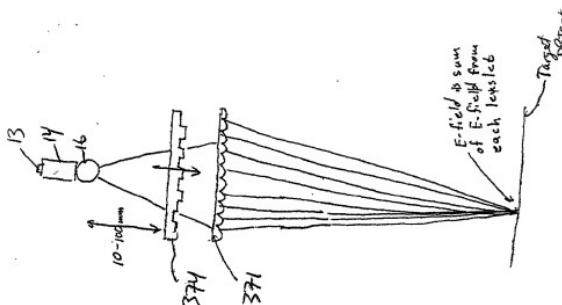
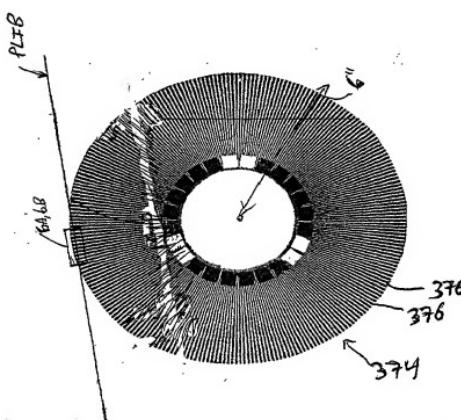


FIG 118D



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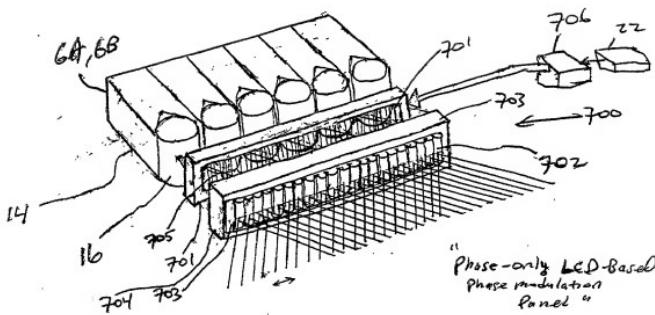


FIG.1I8F

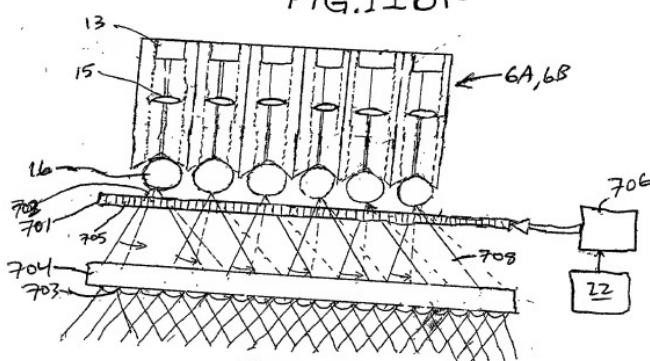


FIG.1I9G

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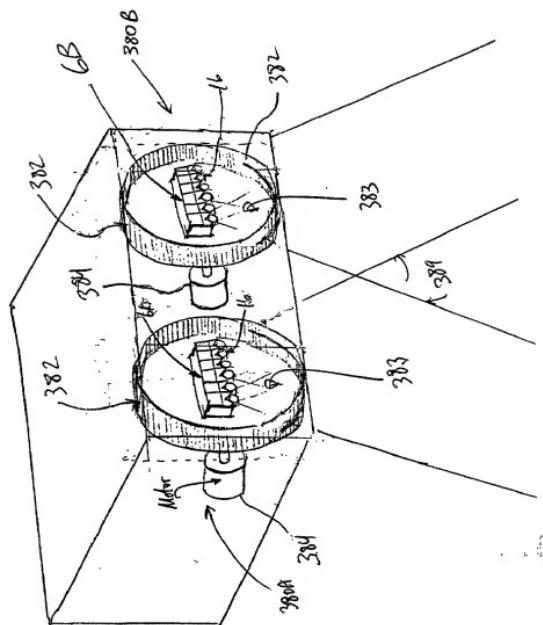
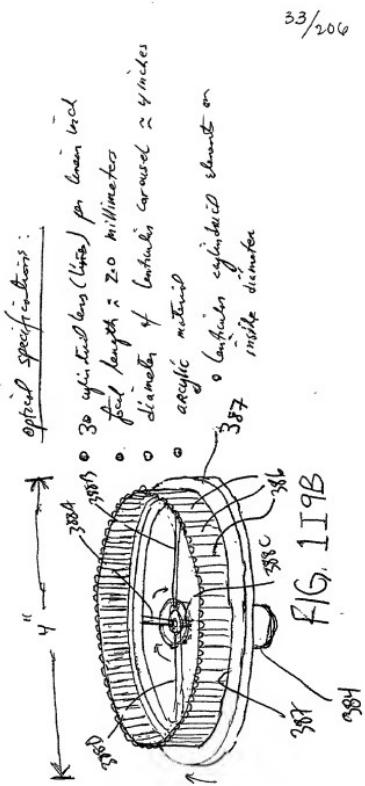


FIG. II A

FIGURE - ELEVEN



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TOP SECRET - DEFENSE EDITION

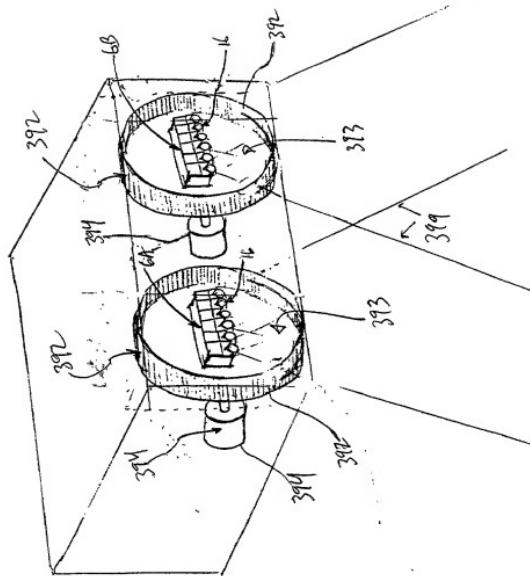
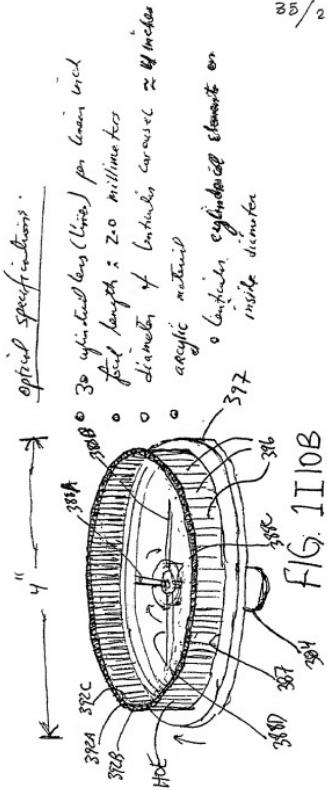


FIG. 1110A

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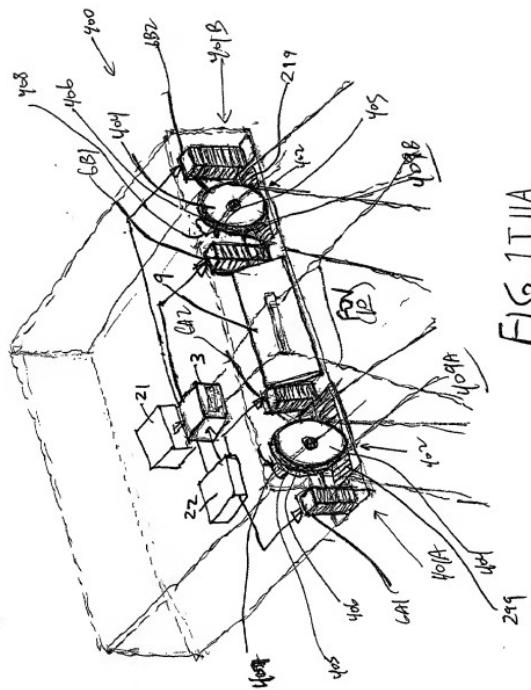


FIG. 111A

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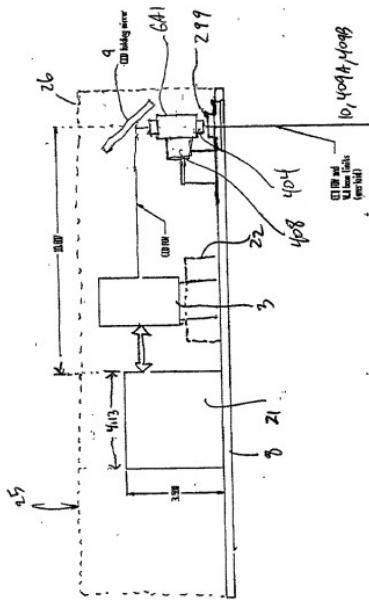


FIG 1T11B

FIG. I.IIC

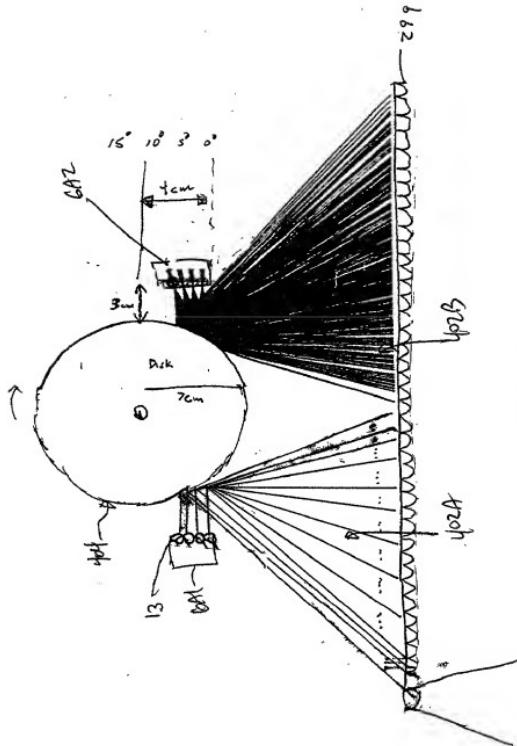


FIGURE I1/2

Second Generalized Method of  
Reducing Spectre-Mouse Patterns  
of Range Detection Theory  
of the FFD Subsystem (3)

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(TMF)

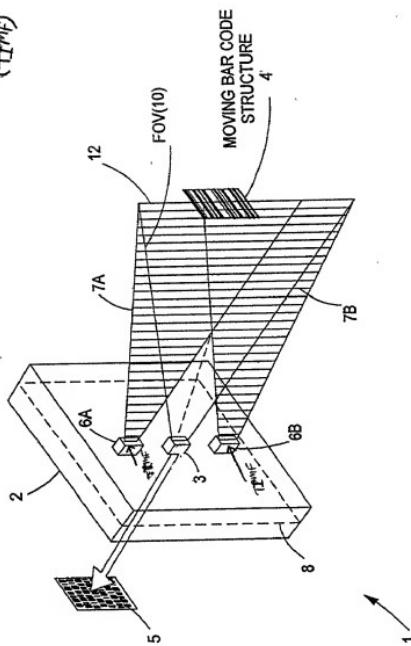


FIG.II/2

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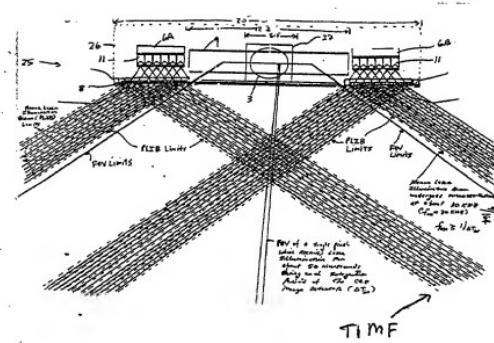


FIG. 1 I 13A

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## The Second Generalized Speckle-Noise Pattern Reduction Method Of The Present Invention

Prior to illumination of the target with the planar laser illumination beam (PLIB), modulate the temporal intensity of the transmitted PLIB along the planar extent thereof according to a temporal intensity modulation function (TIMF) so as to modulate the phase along the wavefront of the transmitted PLIB and produce numerous substantially different time-varying speckle-noise patterns at the image detection array of the IFD Subsystem during the photo-integration time period thereof.

Temporally average the numerous substantially different time-varying speckle-noise patterns produced at the image detection array in the IFD Subsystem during the photo-integration time period thereof, so as to thereby reduce power of the speckle-noise pattern observed at the image detection array.

A

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FIG. 1I13B

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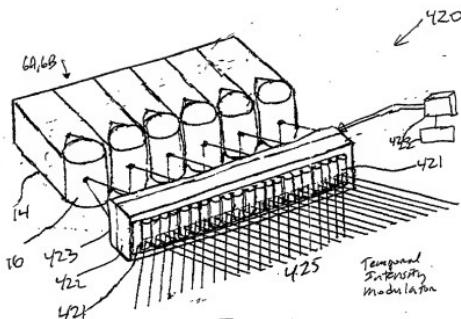


FIG. 1I14A

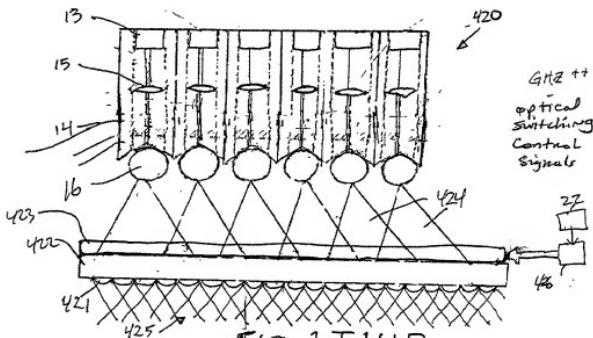


FIG. 1I14B

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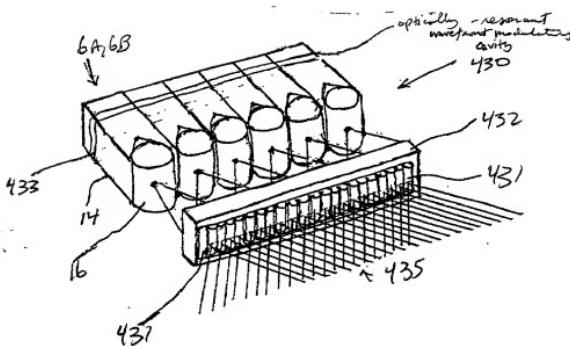


FIG. 1I15A.

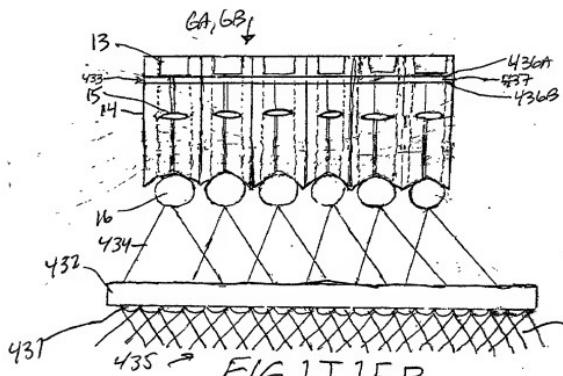


FIG. 1I15B

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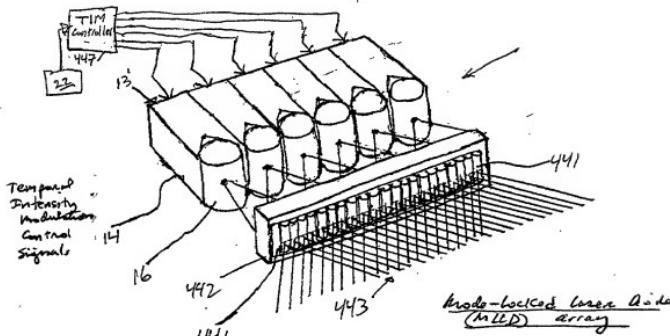


FIG. 1I15C

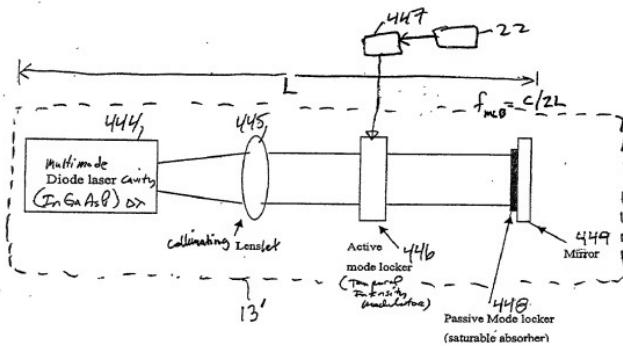


FIG. 1I15D

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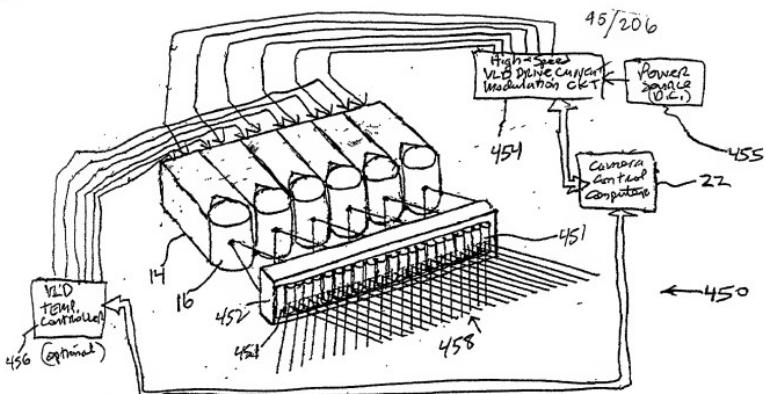


FIG. II16A

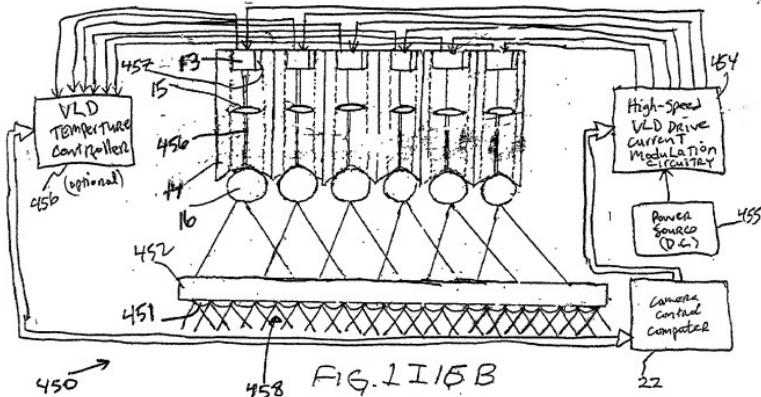
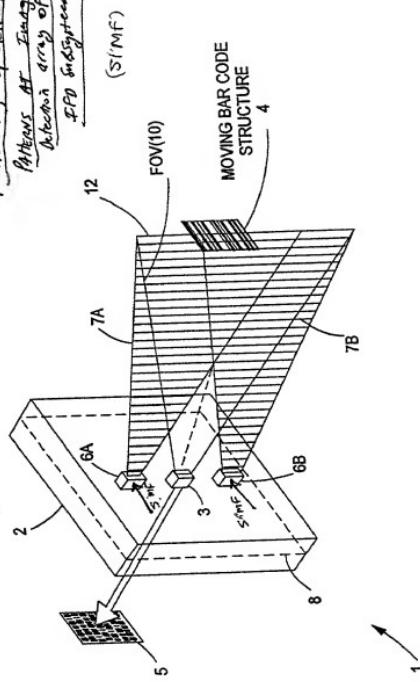


FIG. II16B

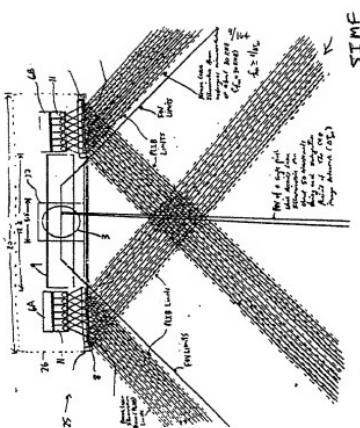
Third Generalized Method  
of Reducing Speckle-Noise  
Means At Range  
Achromatic of a  
FDP System (3)



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FIGURE 17

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Line to object illumination

FIG. II 18A

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The Third Generalized Speckle-Noise Pattern Reduction Method  
Of The Present Invention

Prior to illumination of the target with the planar laser illumination beam (PLIB), modulate the spatial intensity of the transmitted PLIB along the planar extent thereof according to a spatial intensity modulation function (SIMF) so as to modulate the phase along the wavefront of the transmitted PLIB and produce numerous substantially different time-varying speckle-noise patterns at the image detection array of the IFD Subsystem during the photo-integration time period thereof.

Temporally average the numerous substantially different time-varying speckle-noise patterns produced at the image detection array in the IFD Subsystem during the photo-integration time period thereof, so as to thereby reduce power of the speckle-noise pattern observed at the image detection array.

A

B

FIG. III 18B

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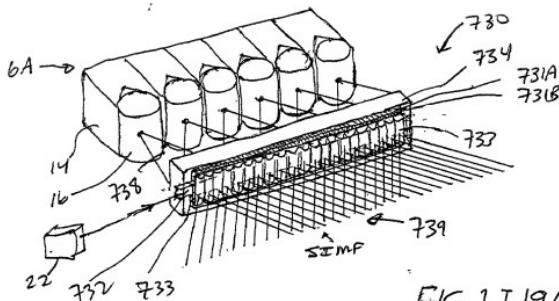


FIG. II 19A

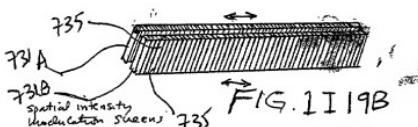


FIG. II 19B

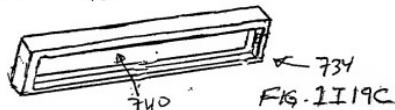


FIG. II 19C

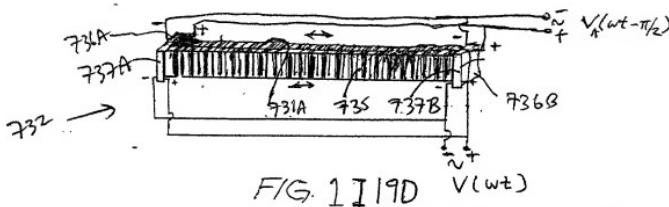


FIG. II 19D

Fourth Generalized Method of  
Reducing Speckle-Noise Patterns  
at Large Deflection Angles  
of the IFOV Subsystem  
(SIMF)

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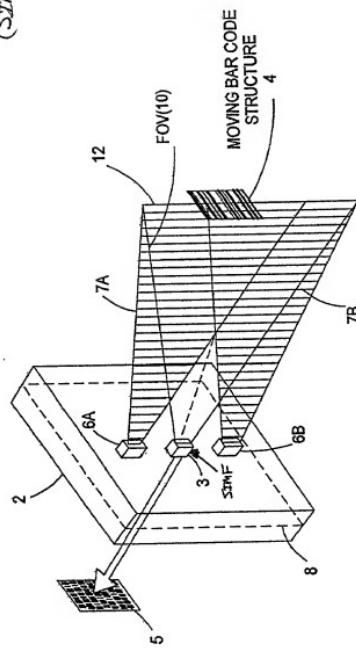


FIG. 1120

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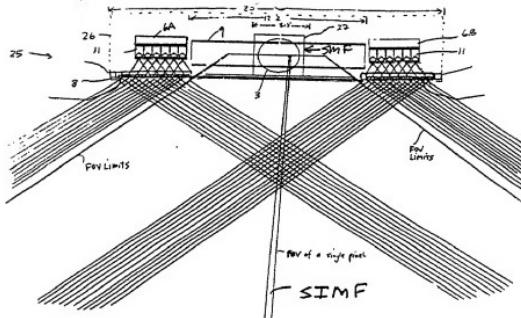


FIG. II 21A

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The Fourth Generalized Speckle-Noise Pattern Reduction Method  
Of The Present Invention

After illumination of the target with the planar laser illumination beam (PLIB), modulate the spatial intensity of the reflected/scattered (i.e. received) PLIB along the planar extent thereof according to a spatial intensity modulation function (SIMF) so as to modulate the phase along the wavefront of the received PLIB and produce numerous substantially different time-varying speckle-noise patterns at the image detection array of the IFD Subsystem during the photo-integration time period thereof.

A

Temporally average the many substantially different time-varying speckle-noise patterns produced at the image detection array in the IFD Subsystem during the photo-integration time period thereof, so as to thereby reduce the speckle-noise pattern observed at the image detection array.

B

FIG. 1I21B

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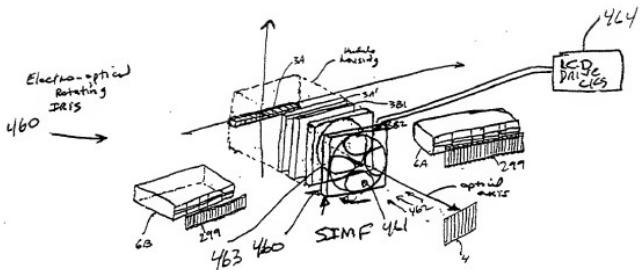


FIG. 1 IZZA

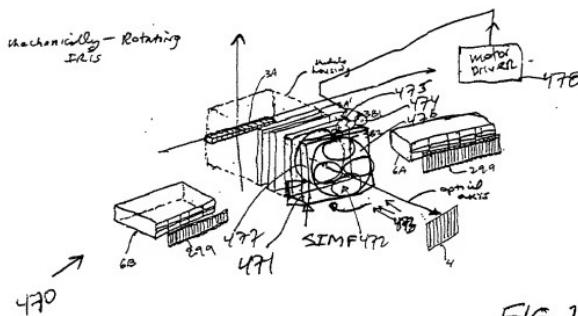


FIG. 1IZZB

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Fourth Generalized Method of  
Reducing Smoke-Noise Attenuation  
at Range Detection Array  
of the TTD System

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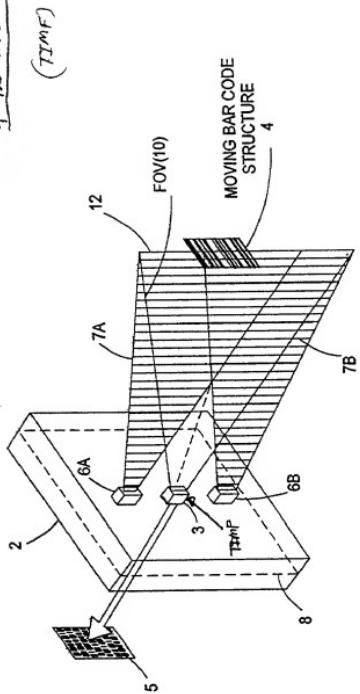


FIG.II23

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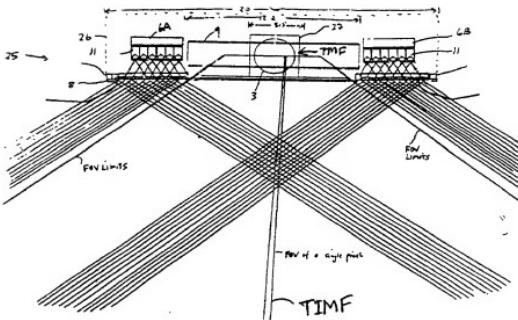


FIG. II 24A

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The Fifth Generalized Speckle-Noise Pattern Reduction Method  
Of The Present Invention

After illumination of the target with the planar laser illumination beam (PLIB), modulate the temporal intensity of the reflected/scattered (i.e. received) PLIB along the planar extent thereof according to a temporal intensity modulation function (TIMF) so as to modulate the phase along the wavefront of the received PLIB and produce many substantially different time-varying speckle-noise patterns at the image detection array of the IFD Subsystem during the photo-integration time period thereof.

↓  
Temporally average the many substantially different time-varying speckle-noise patterns produced at the image detection array in the IFD Subsystem during the photo-integration time period thereof, so as to thereby reduce the speckle-noise pattern observed at the image detection array.

A

B

FIG. 1I 24B

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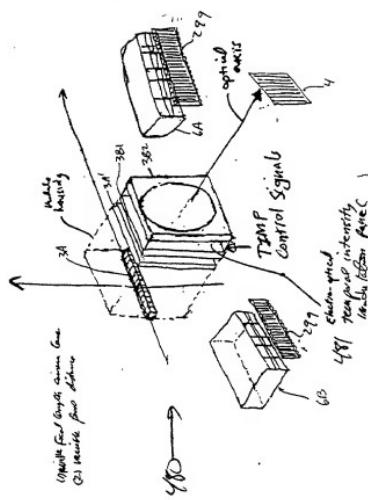
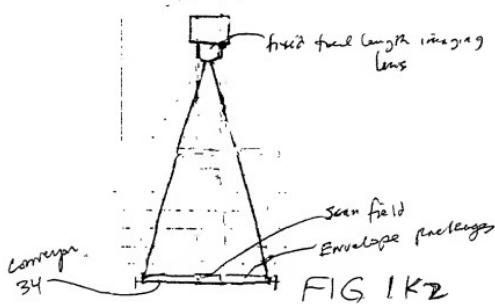
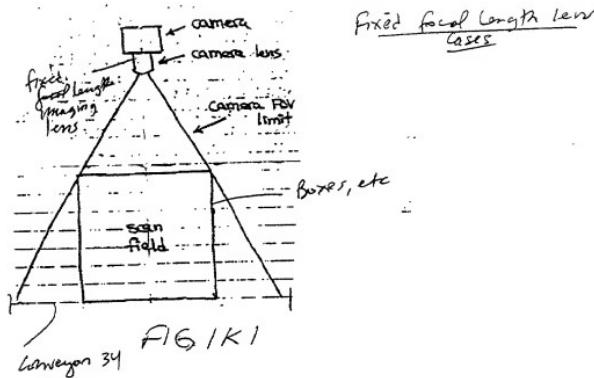


Fig. 1125

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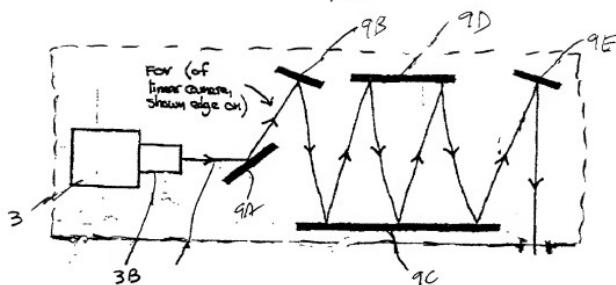


FIG. 1L1

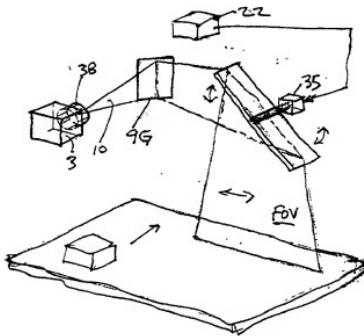


FIG. 1L2

60 / 200

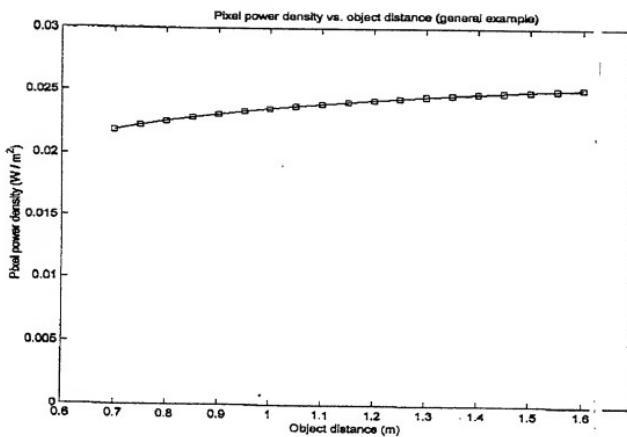


FIG - [M]

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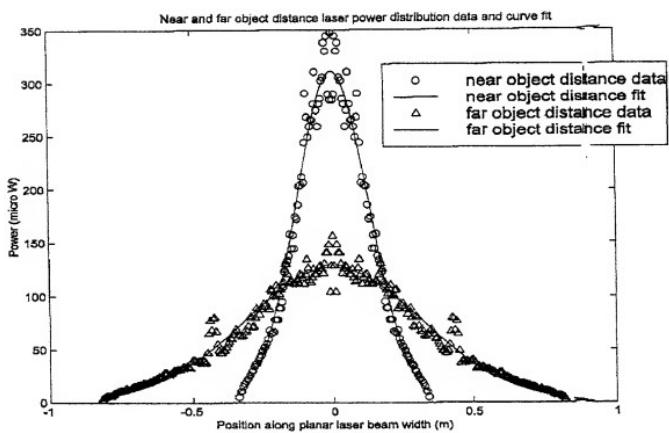


FIG. 1M2

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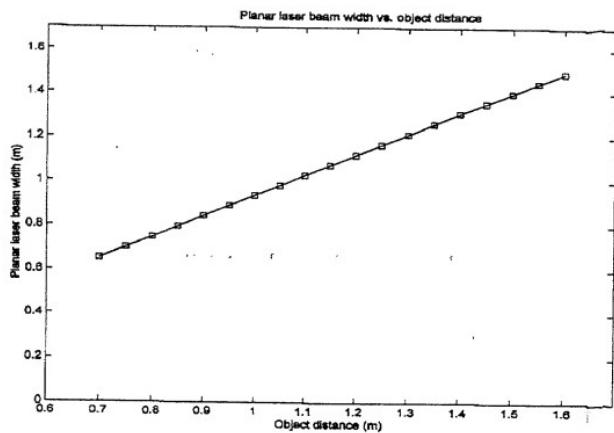
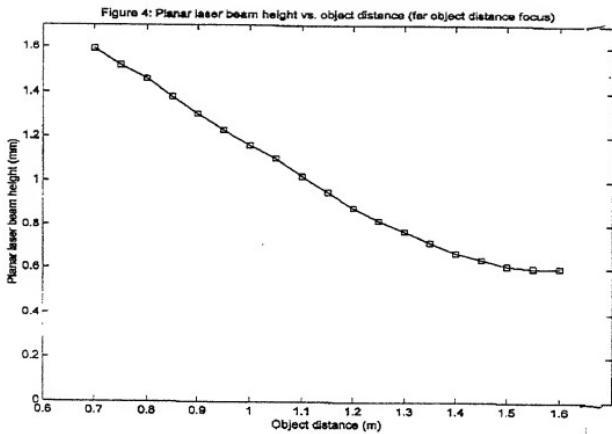


FIG. IM3

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FIG/M4

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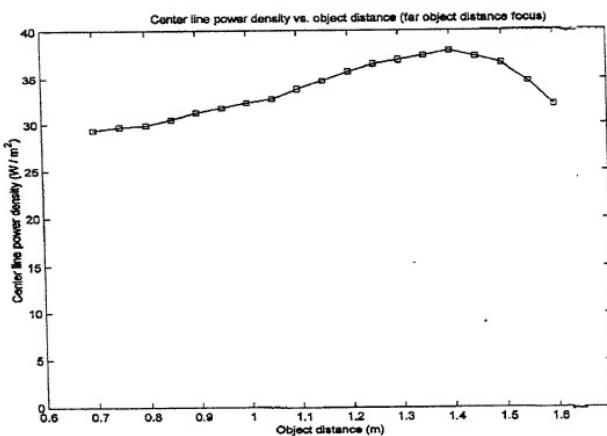


FIG. IN

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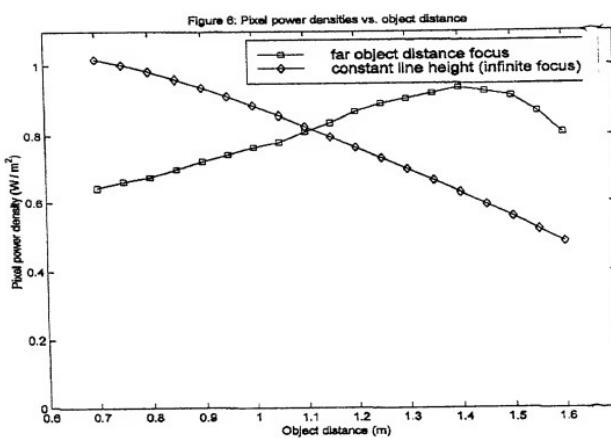


FIG. 10

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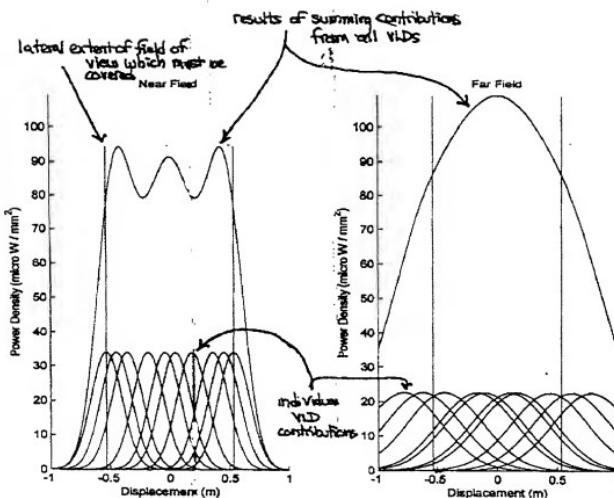


FIG. 1P1

FIG. 1P2

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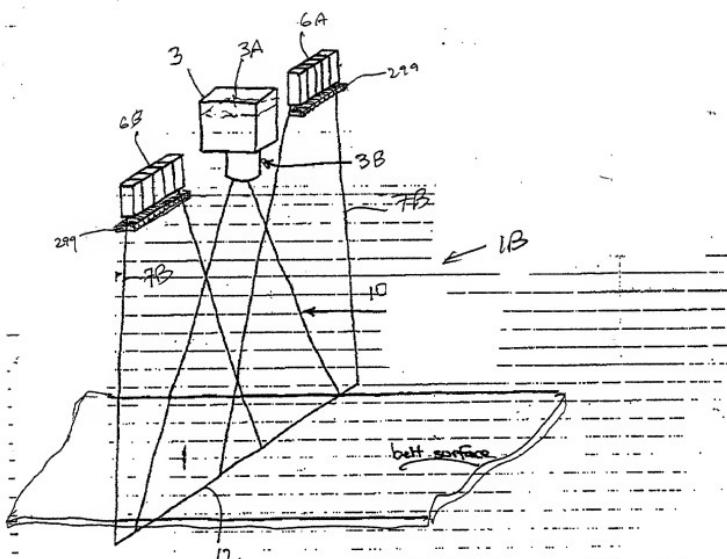
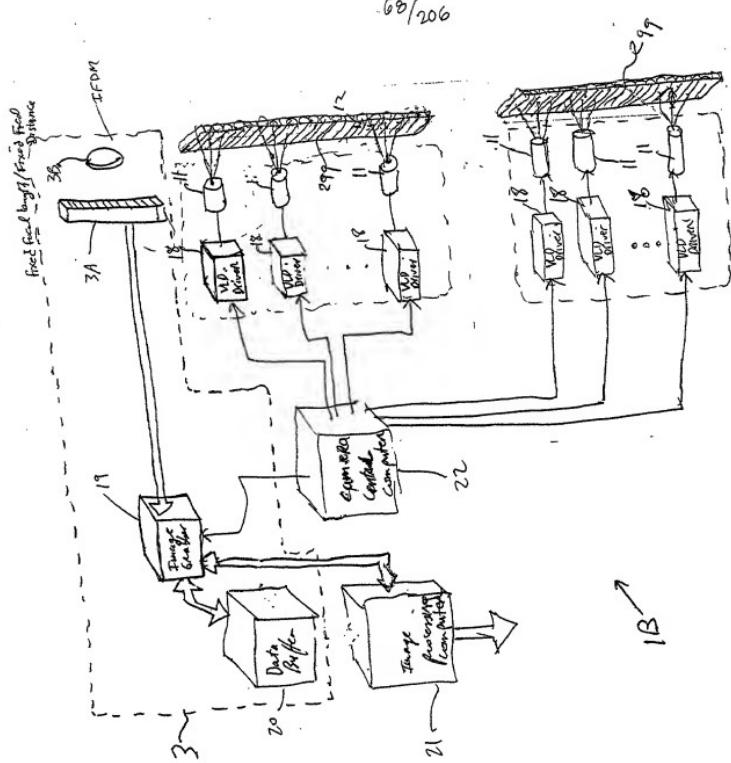


FIG. 1Q1

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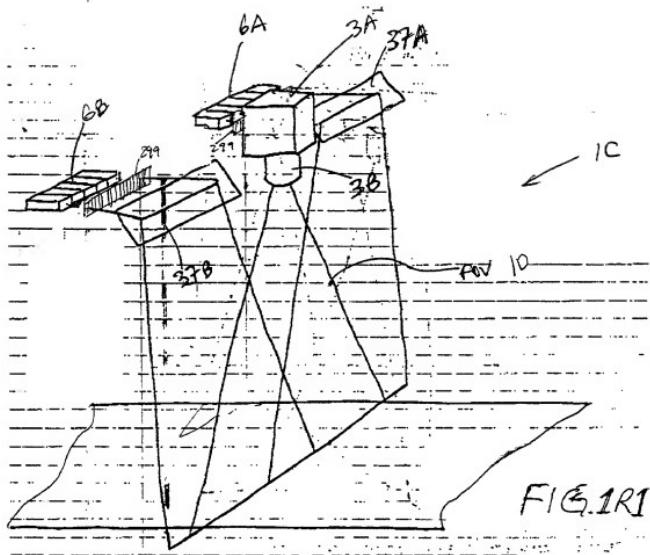
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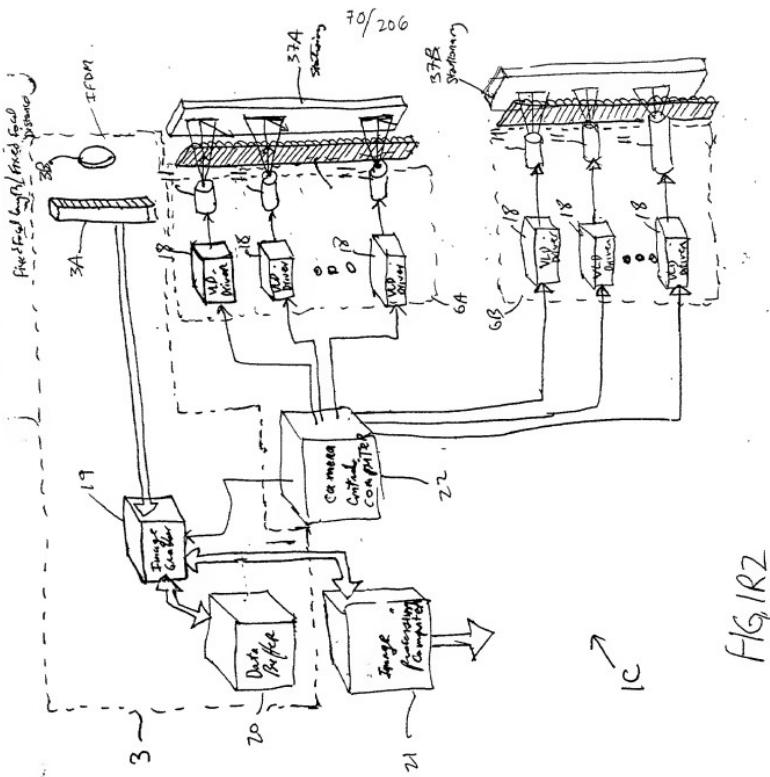
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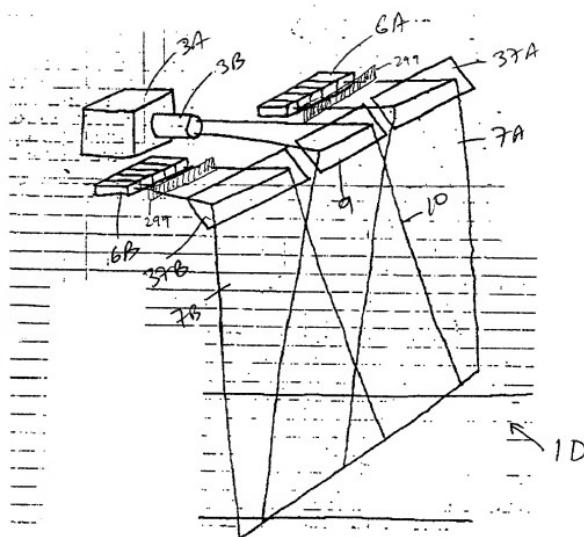
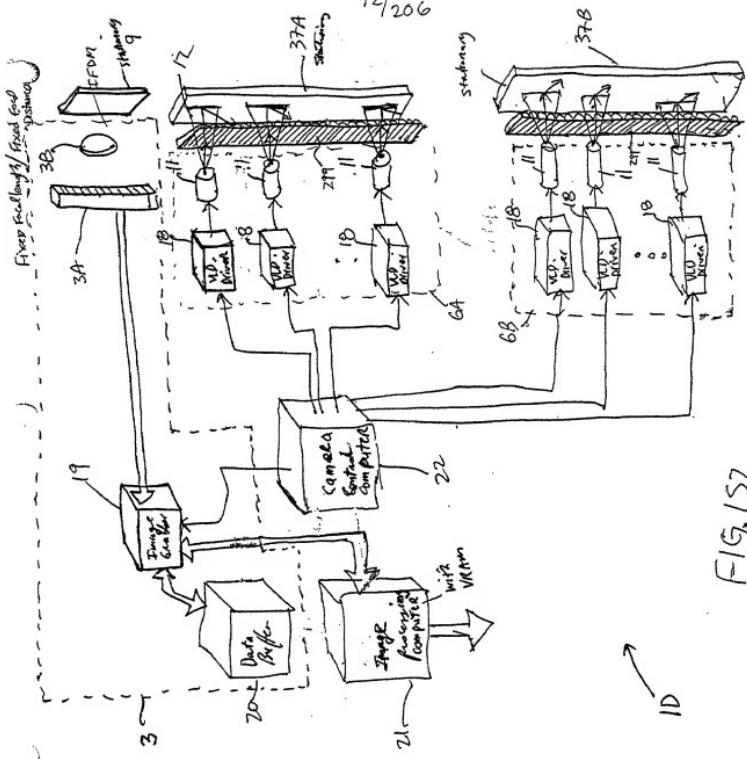


FIG. 1S1

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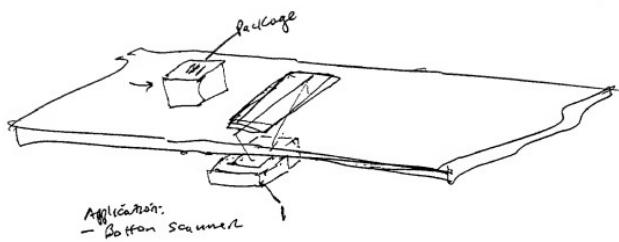


FIG. 1T

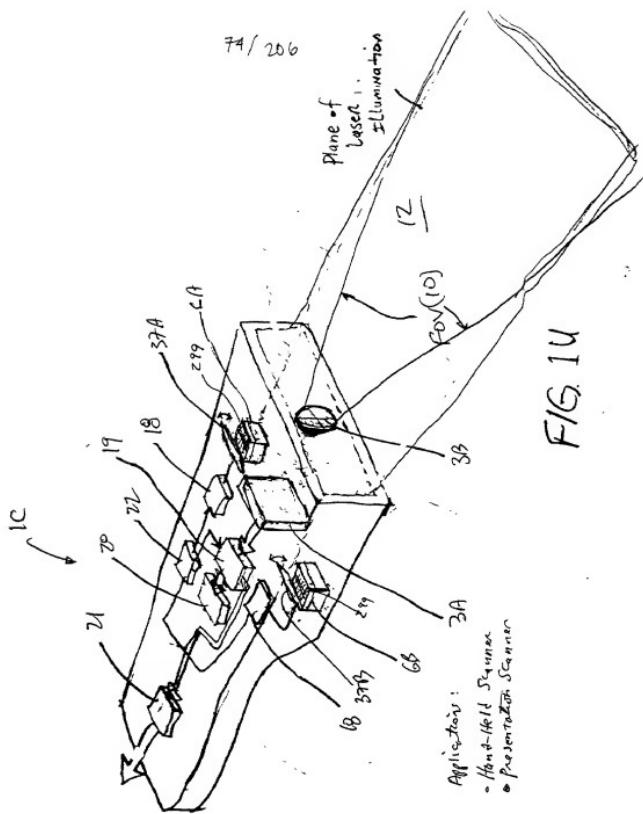


FIG 14

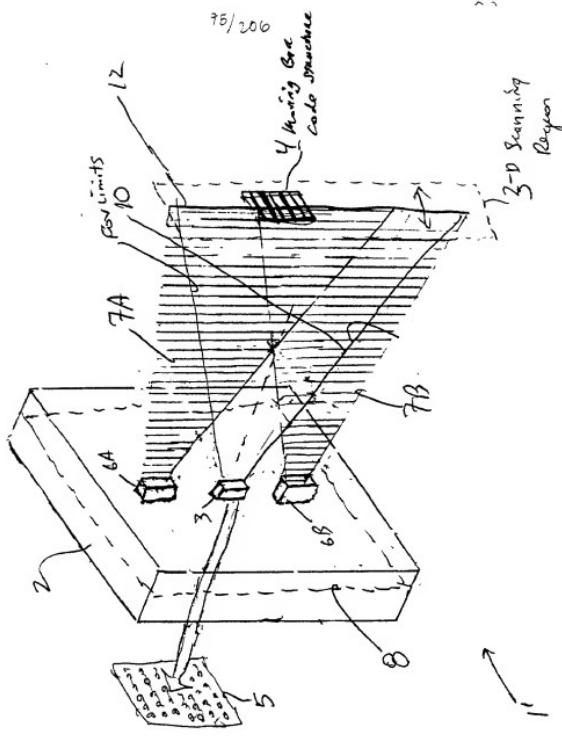


FIG. 14/

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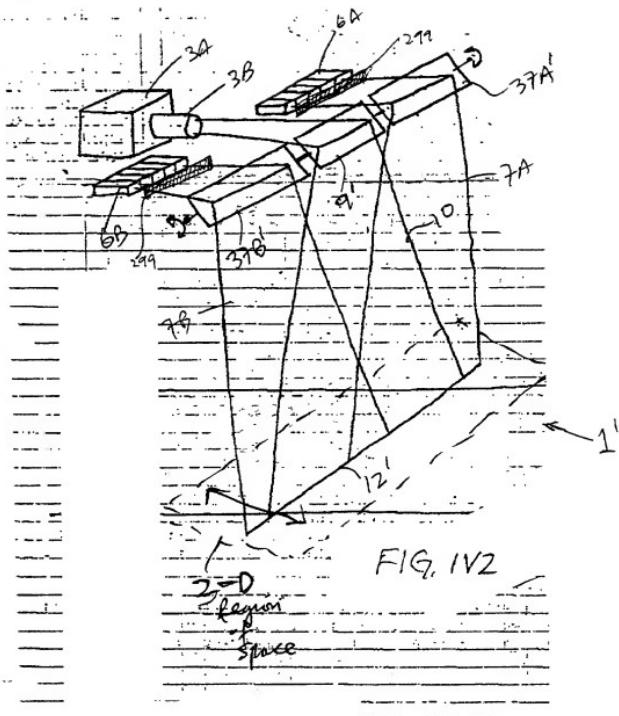
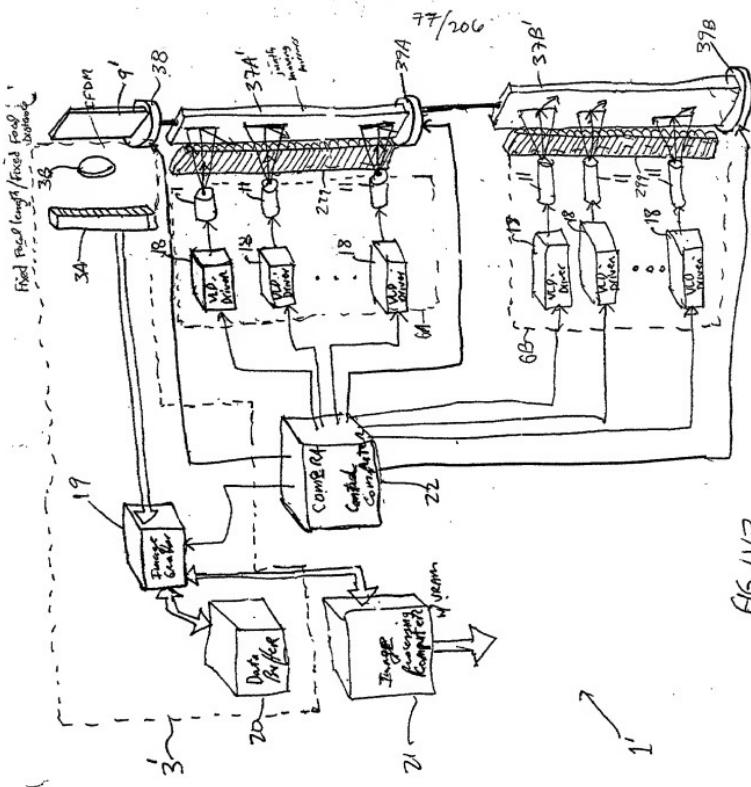


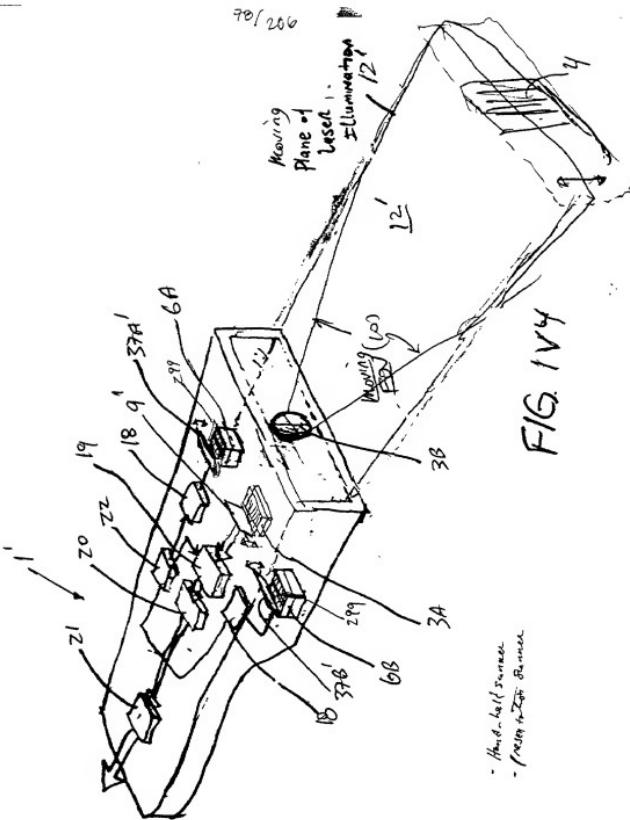
FIG. IV2



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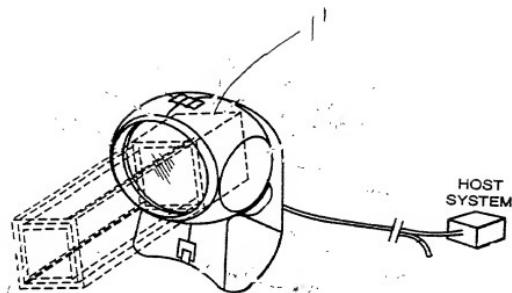
○

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(Presentation-type scanner)

FIG. 1V5

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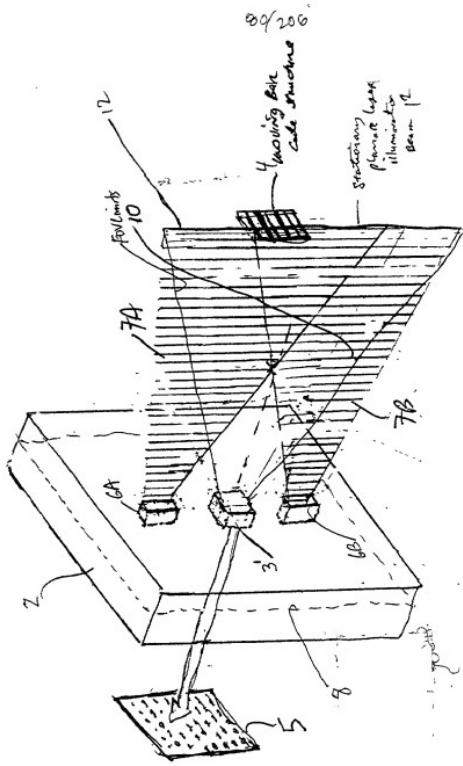


FIG. 2A

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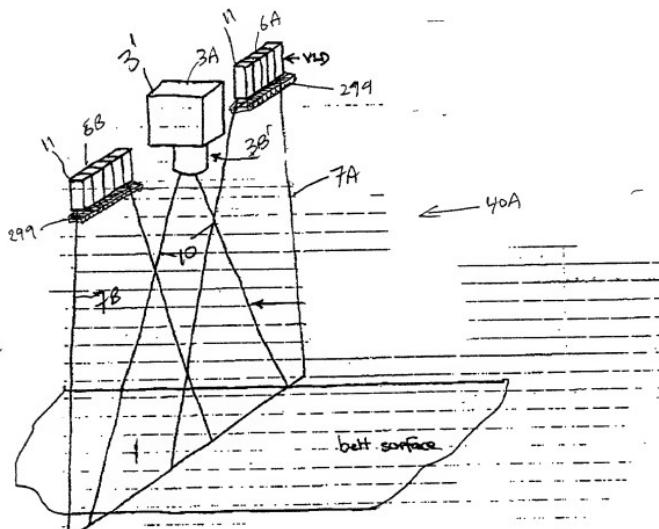


FIG. 2B1

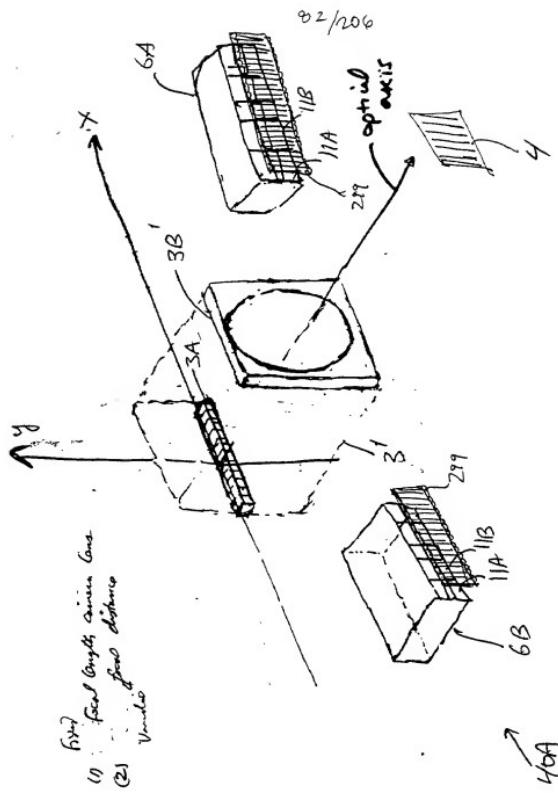
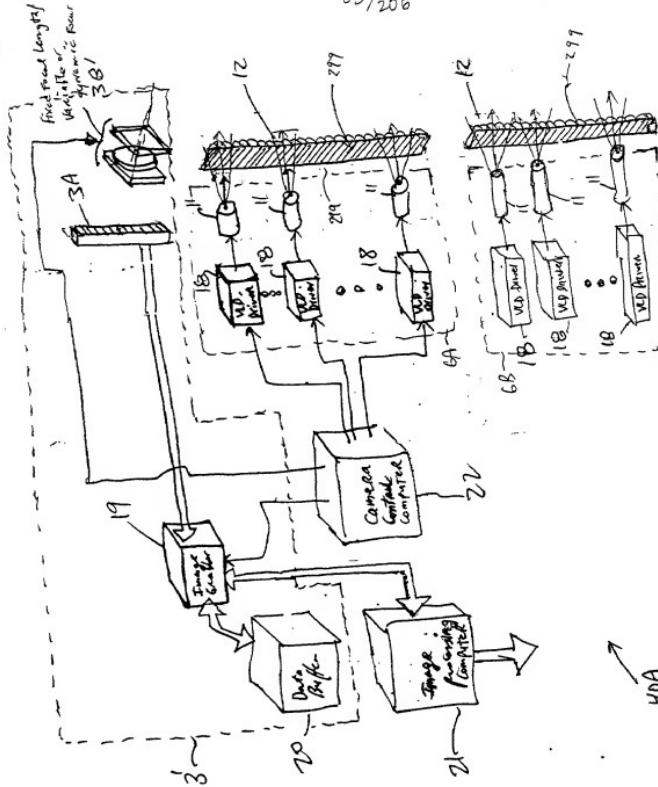


FIG 2B2

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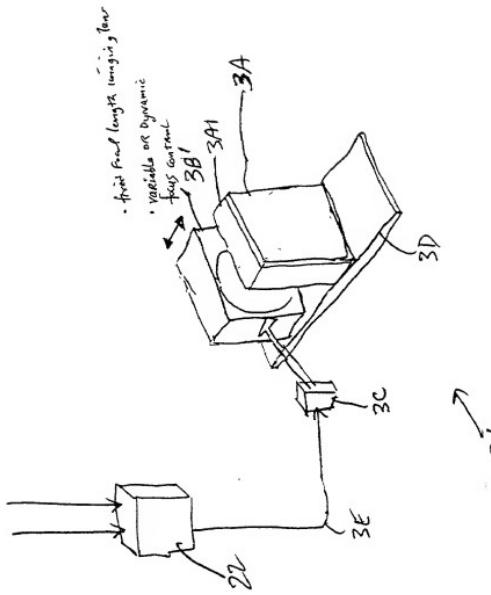


FIG. 2C2

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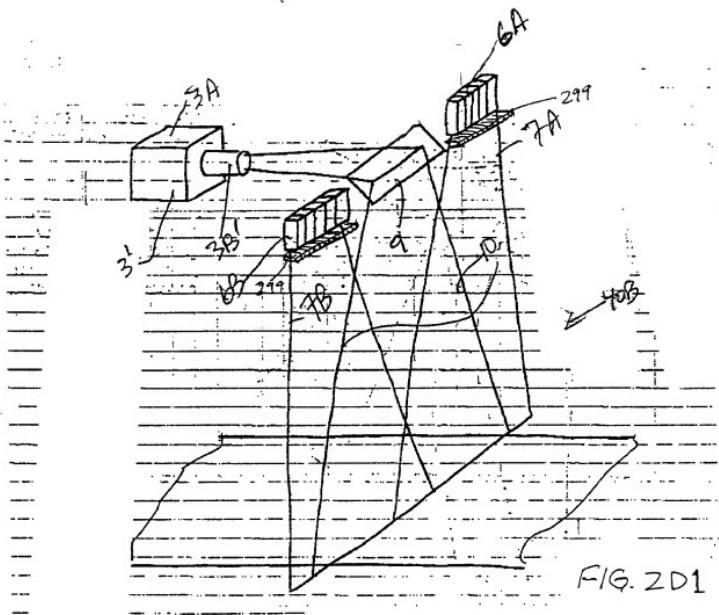
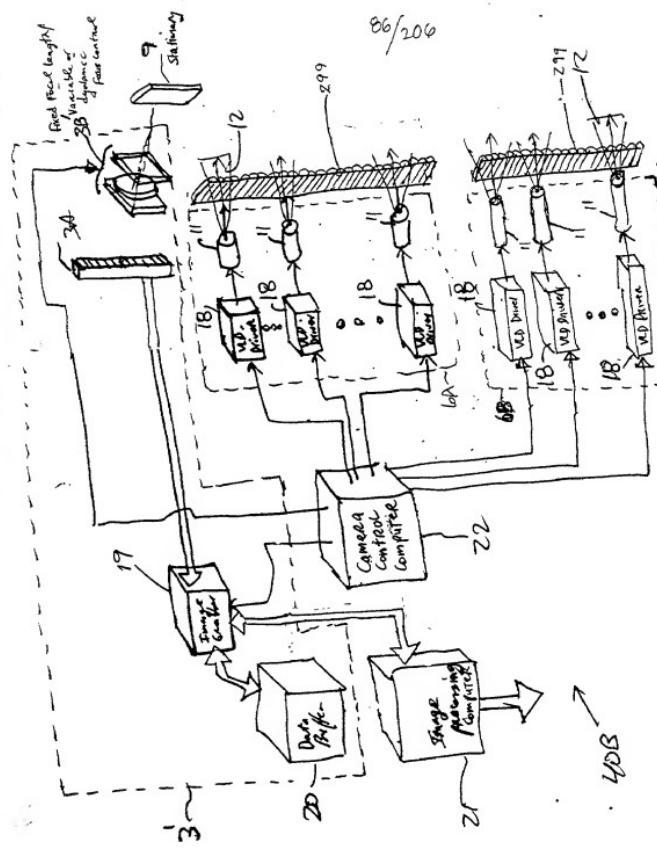


FIG. 2D1

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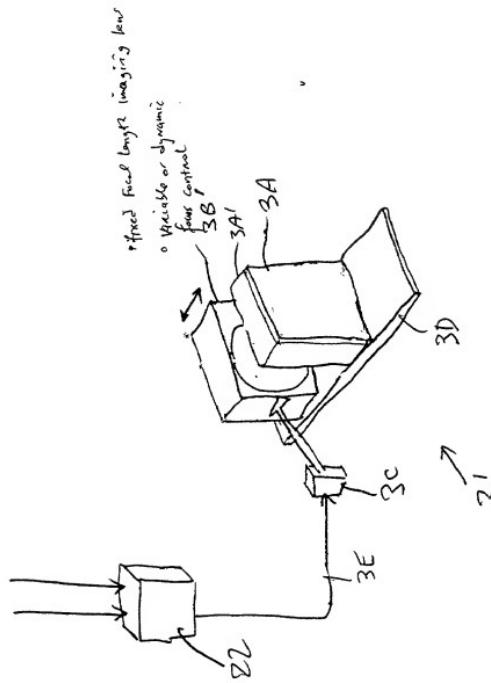


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FIG. 2D3

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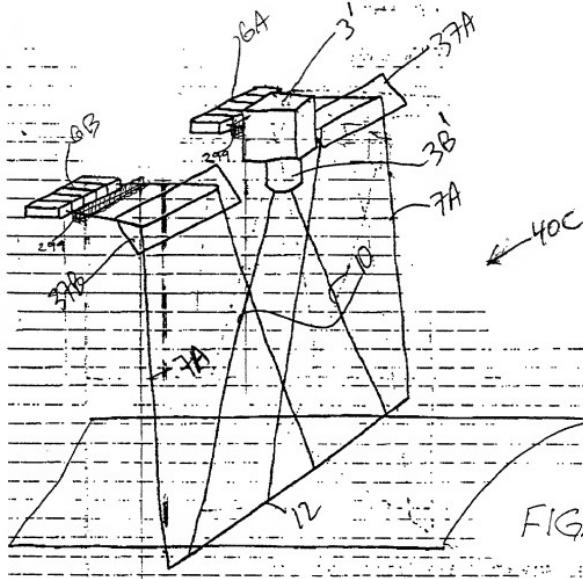


FIG. 2E1

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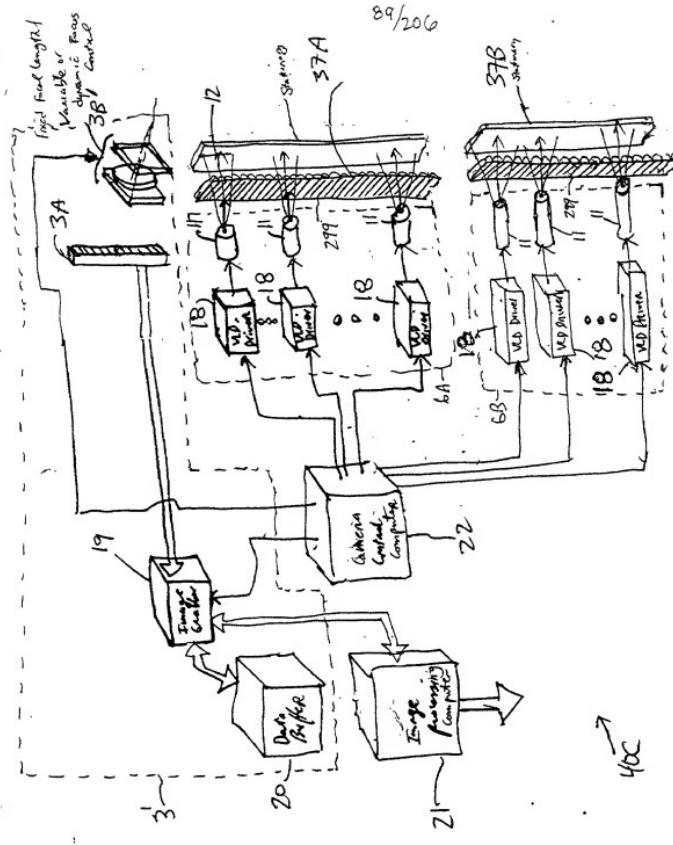


Fig. 2E2

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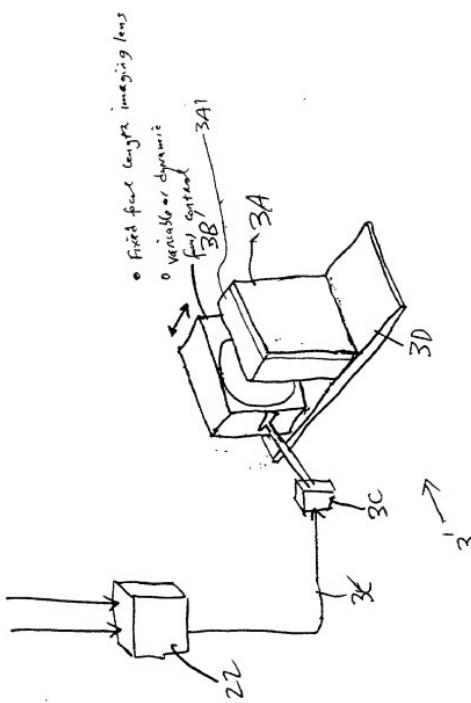
1)

2)

3)

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FIG. 2E3



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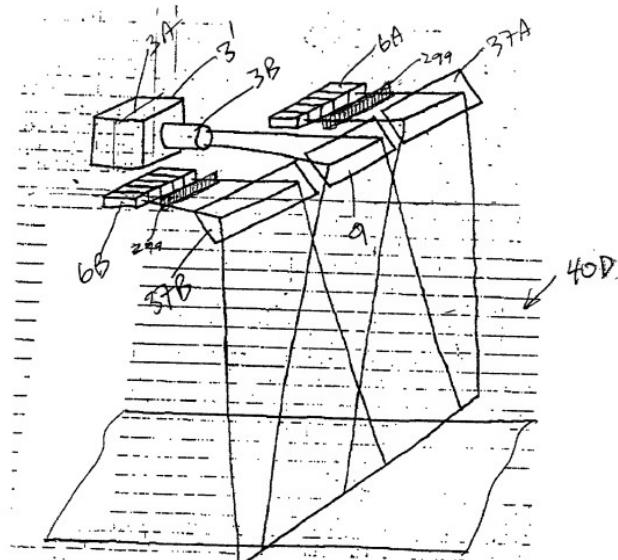


FIG. 2F1

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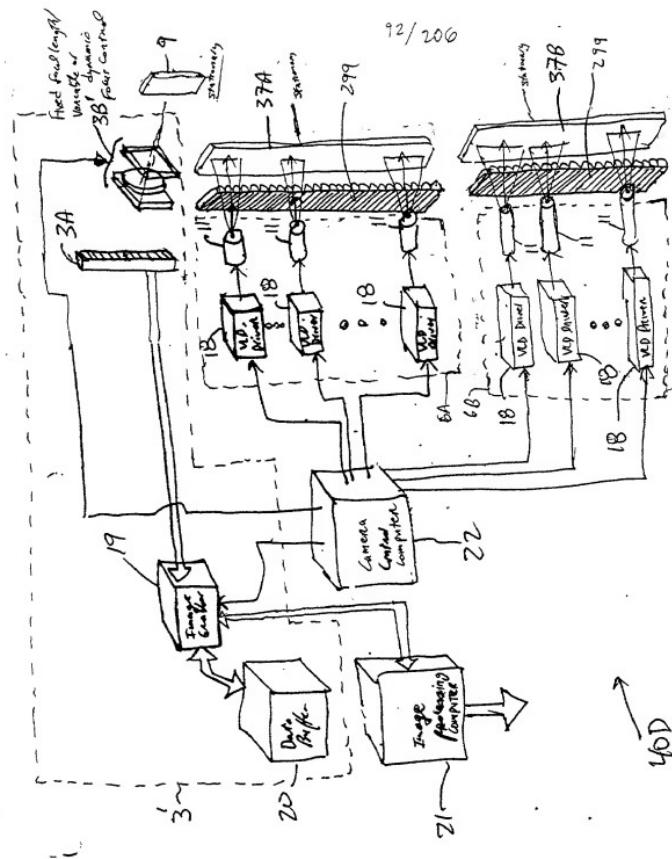


FIG. 2F2

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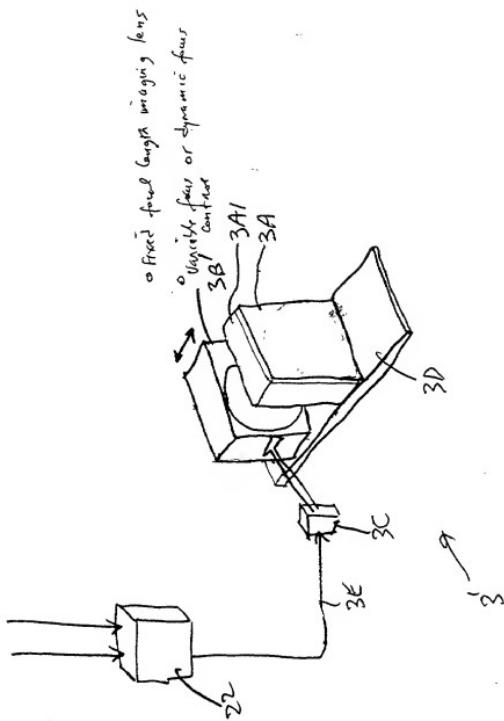


Fig. ZF3

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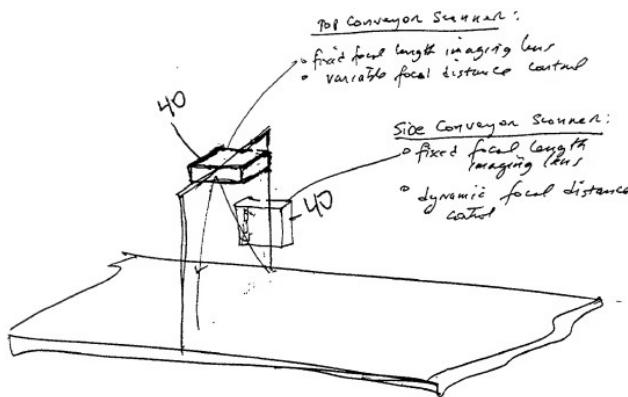


FIG. 2G

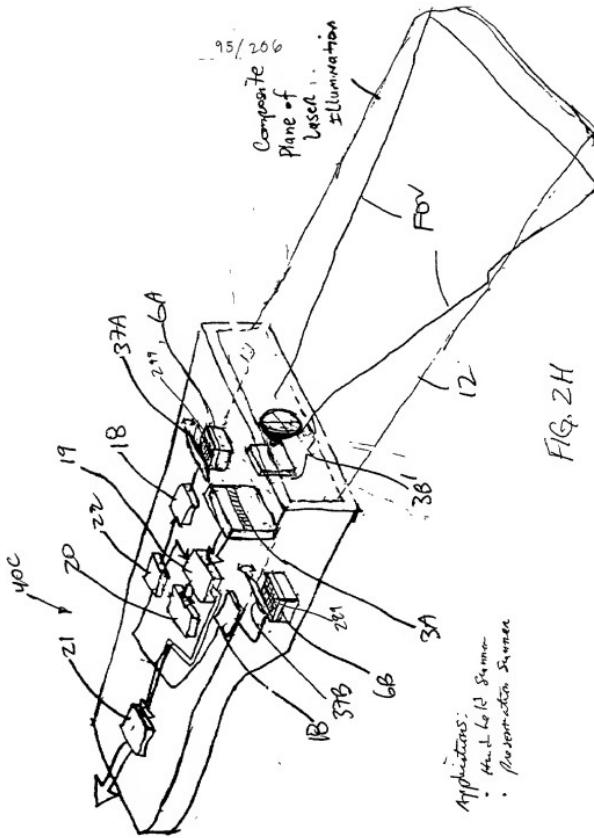


FIG. 2H

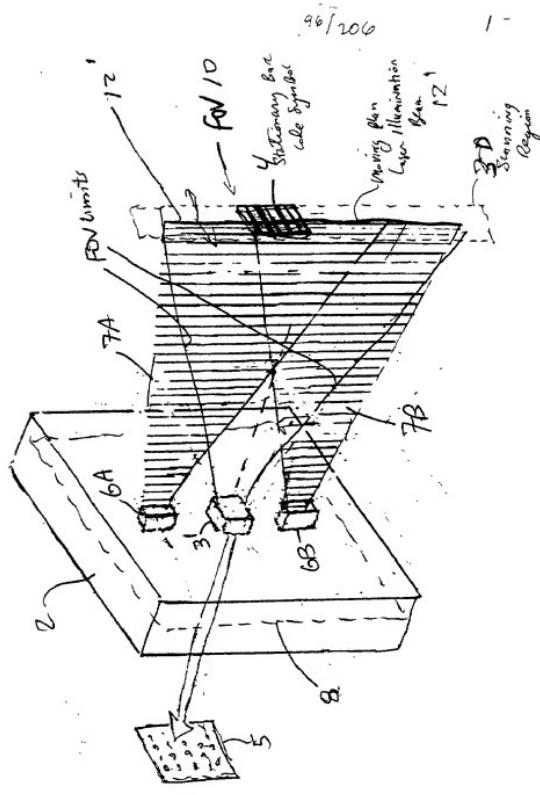
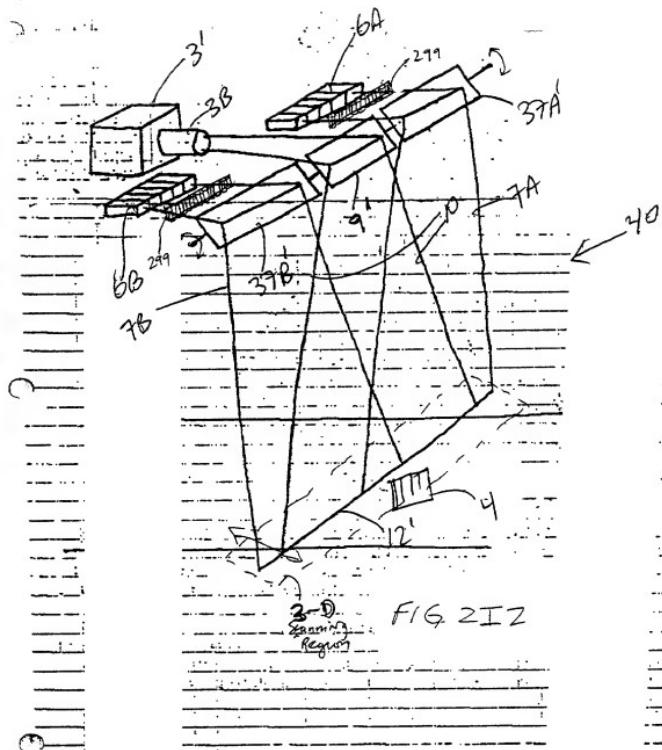


FIG. 21.

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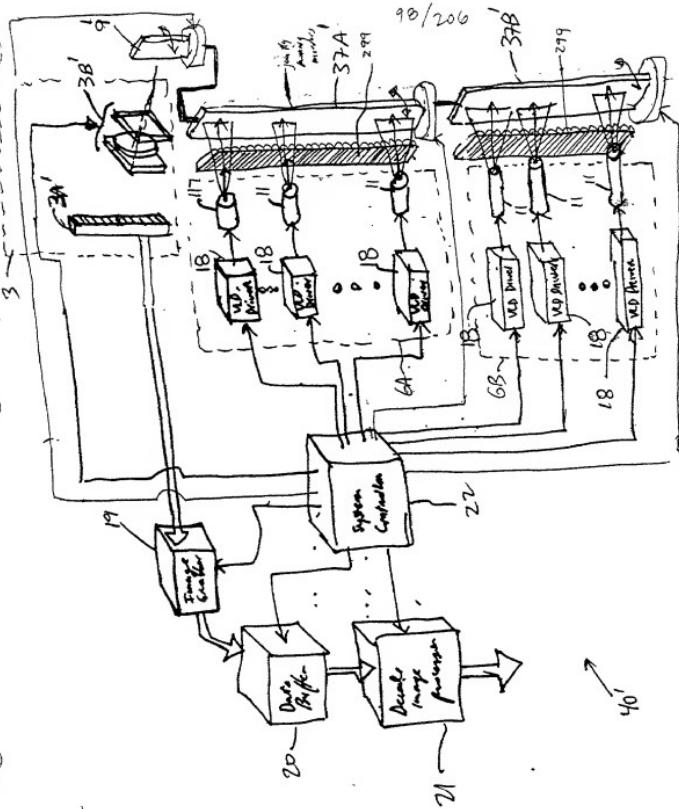


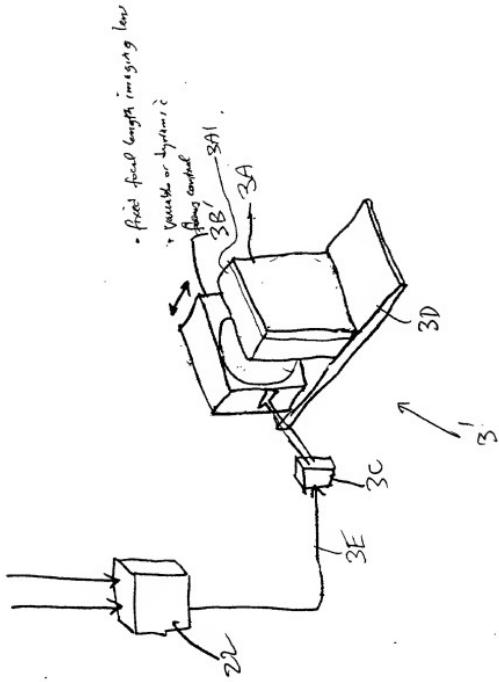
FIG 213

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FIG. 2T4

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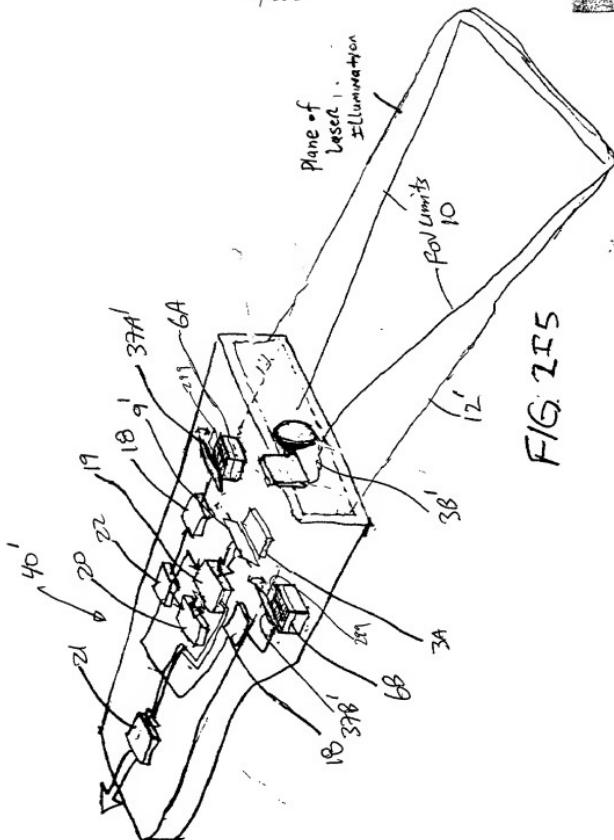


FIG. 215

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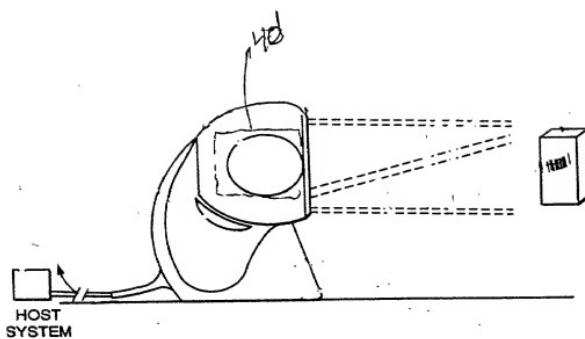


FIG. 216

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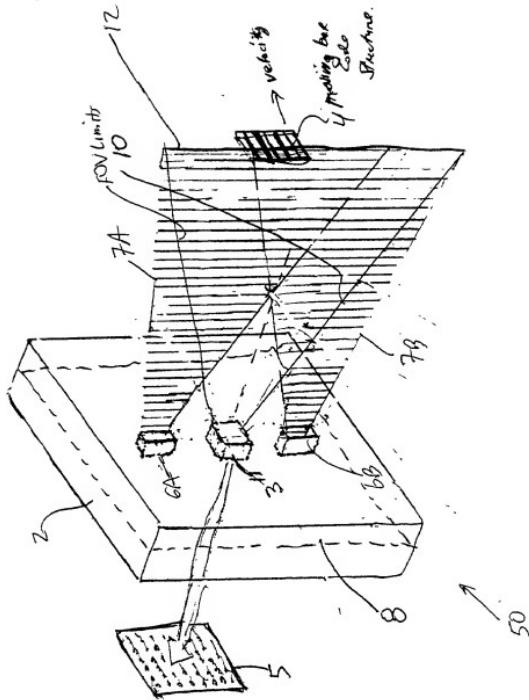


FIG. 3A

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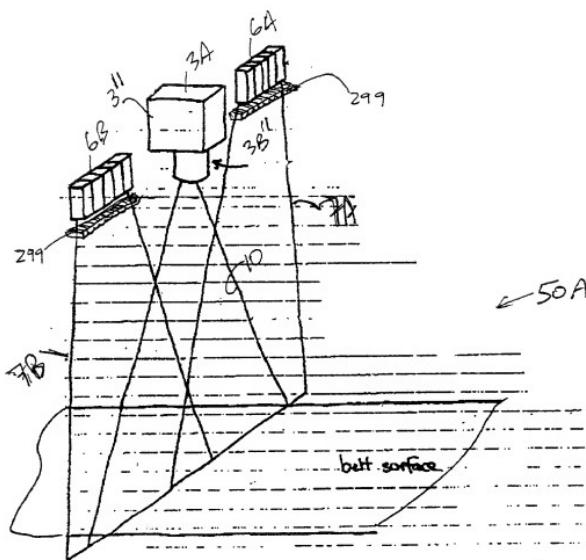
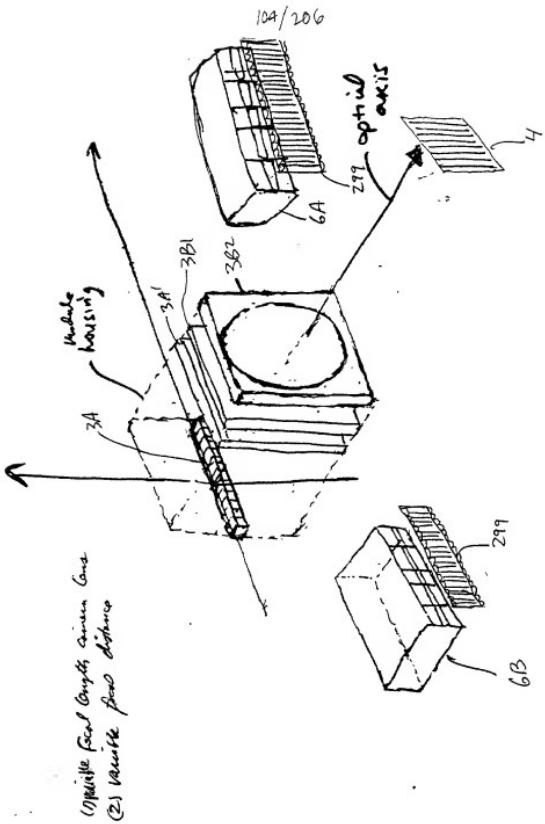


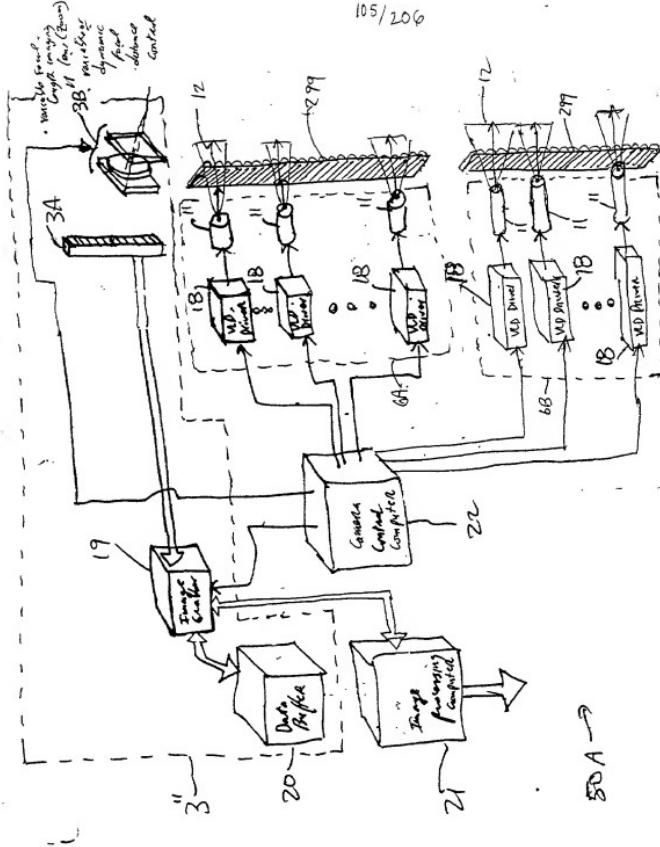
FIG. 3B1

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AG 3C1

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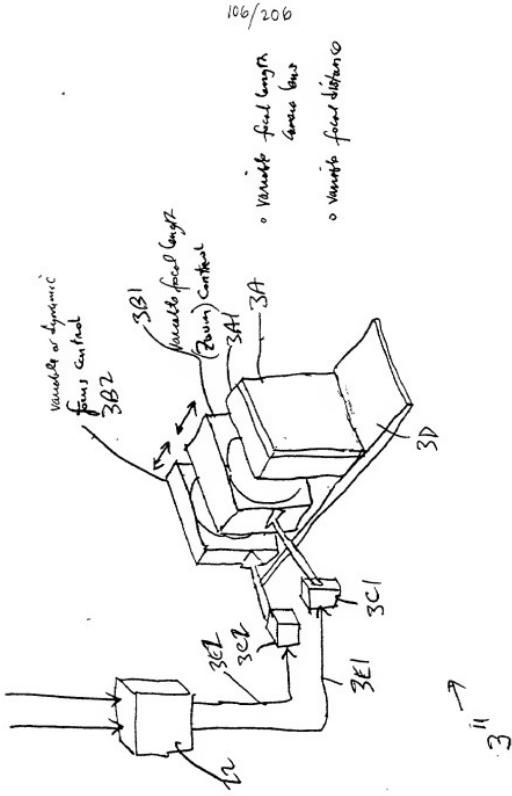


FIG. 3C2

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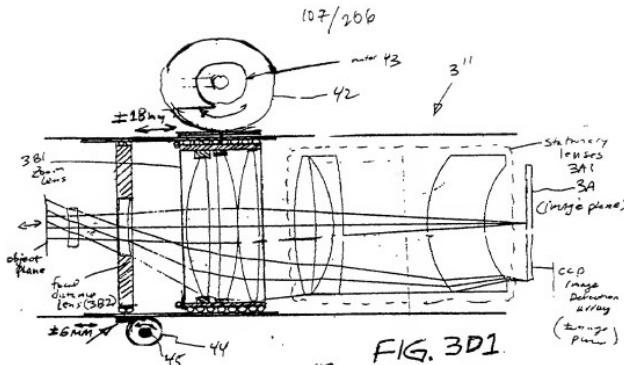
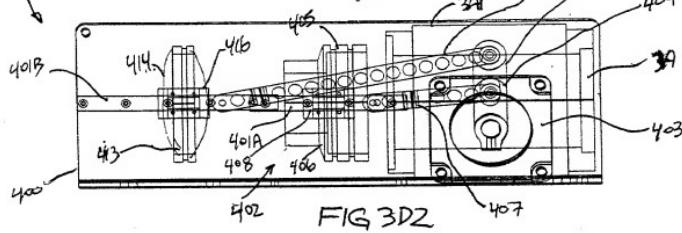
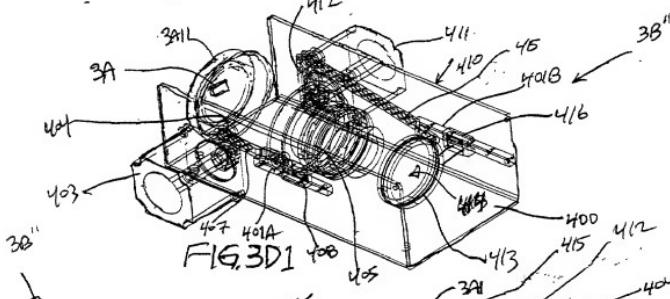


FIG. 3D1



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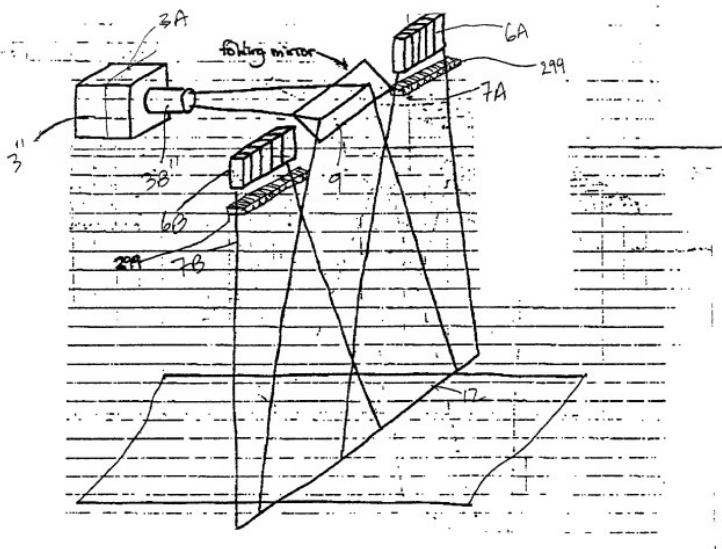


FIG 3E1

FIGURE SEVEN

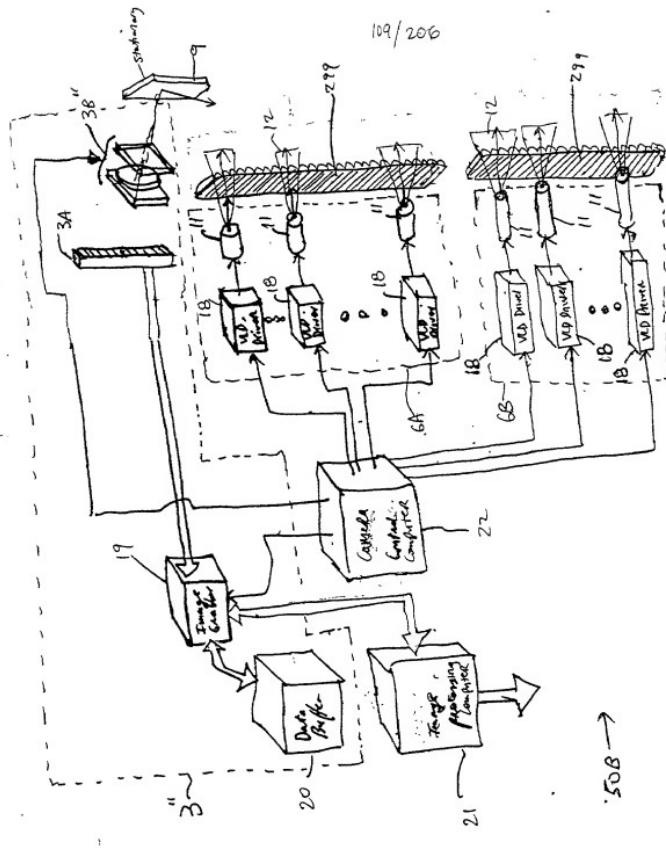


FIG. 3E2

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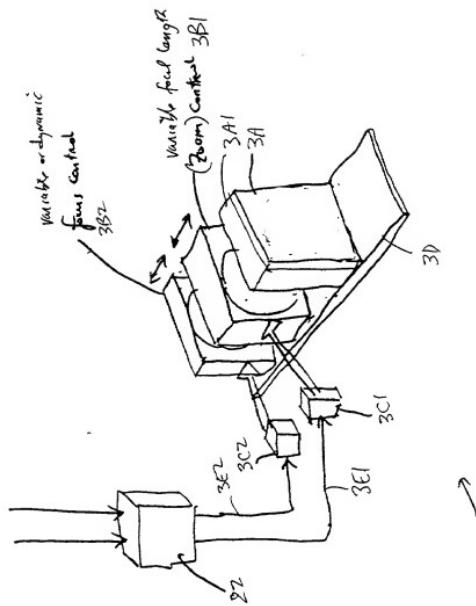
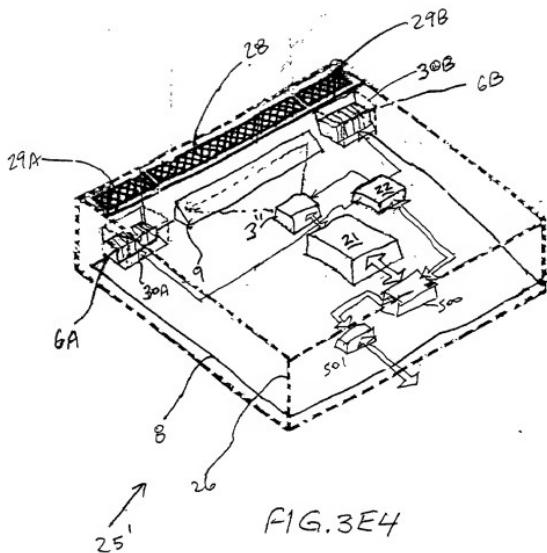


FIG. 3E3

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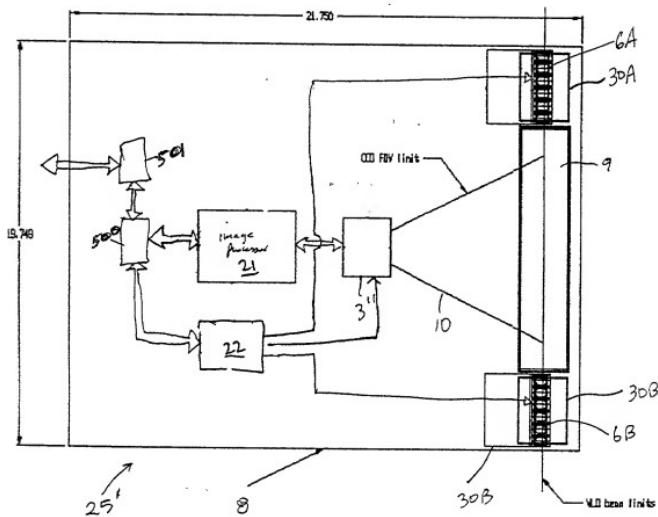


FIG. 3E5

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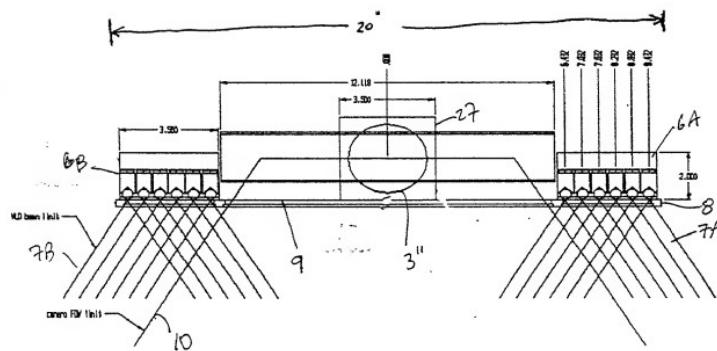


FIG. 3E6

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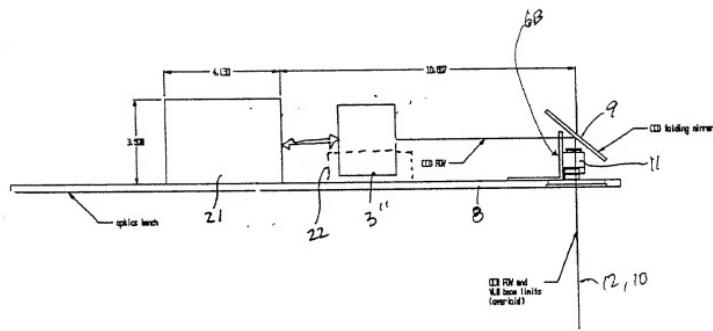


FIG. 3E7

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variable FOV

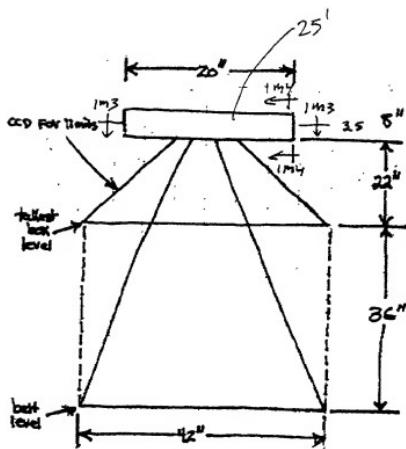


FIG. 3E8

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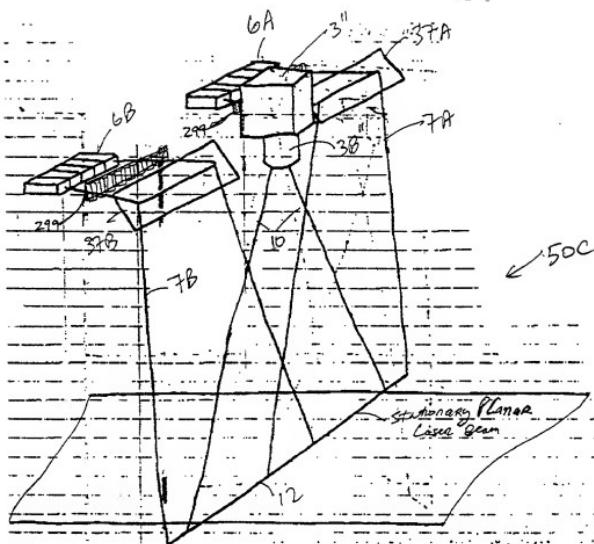
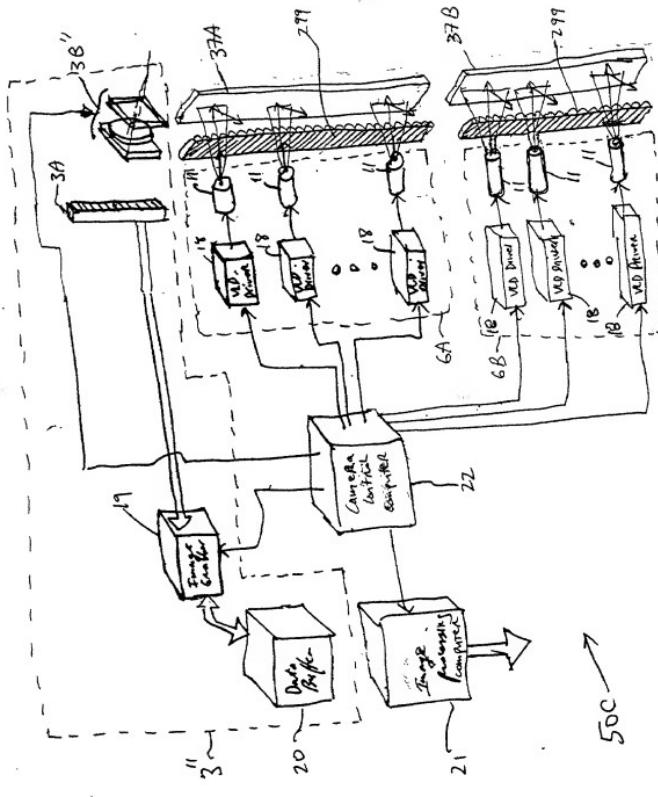


FIG. 3F1

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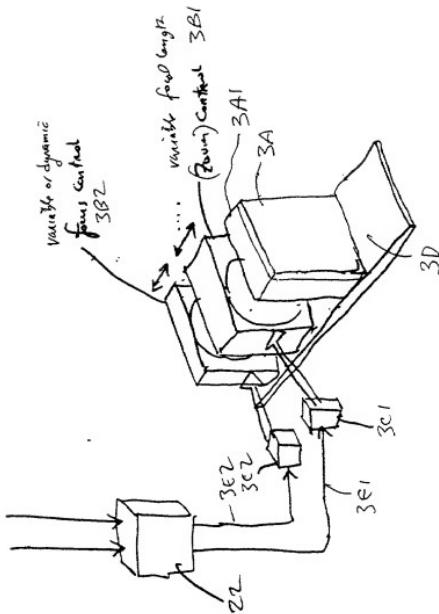


FIG. 3E3

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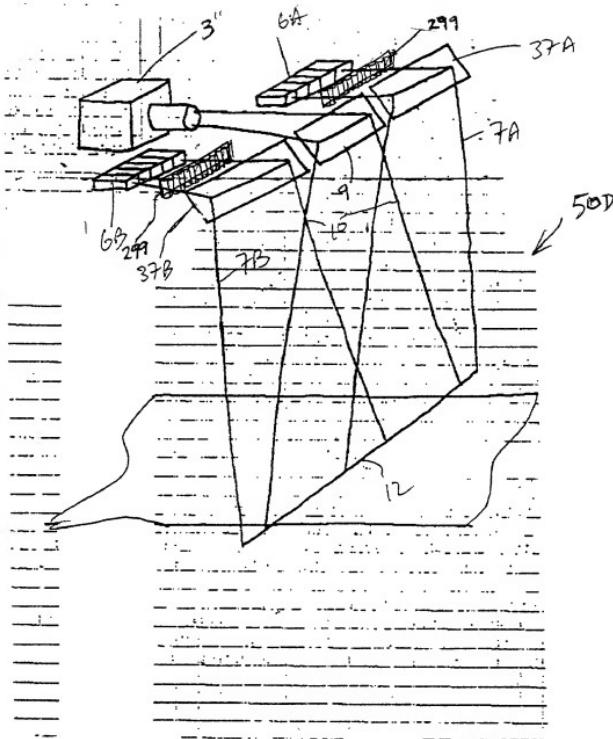


FIG. 3G1

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FIGURE 14758860

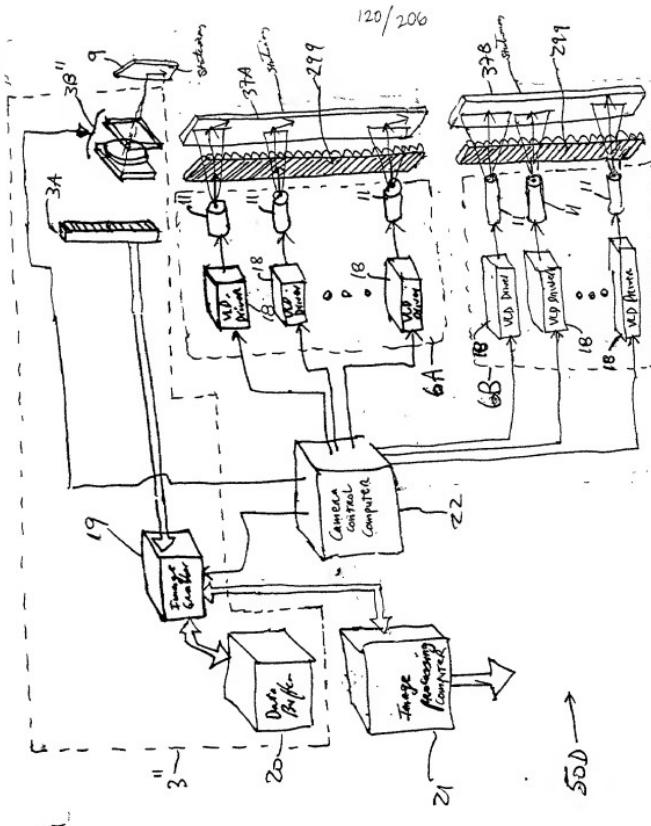


Fig. 362

FIGURE 3Q3

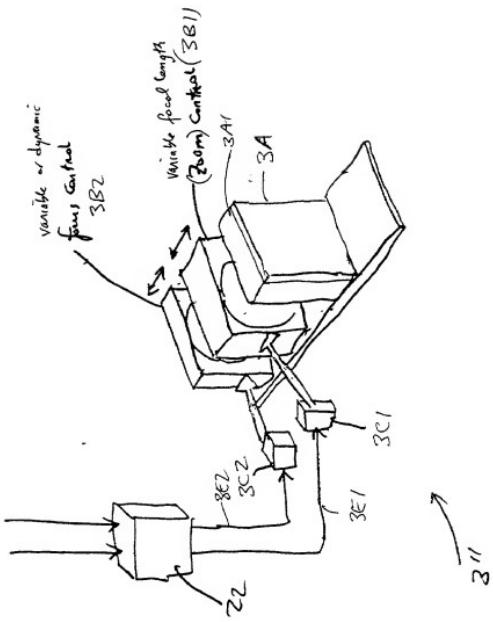
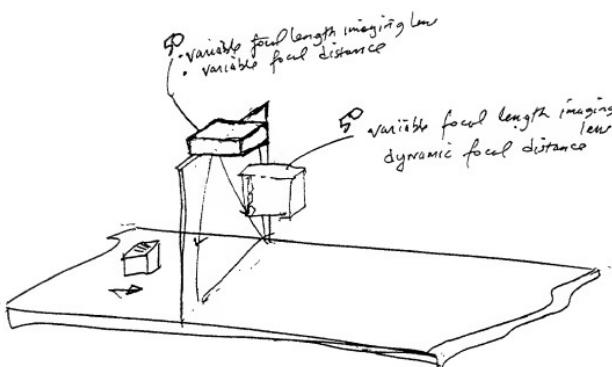


FIG. 3Q3

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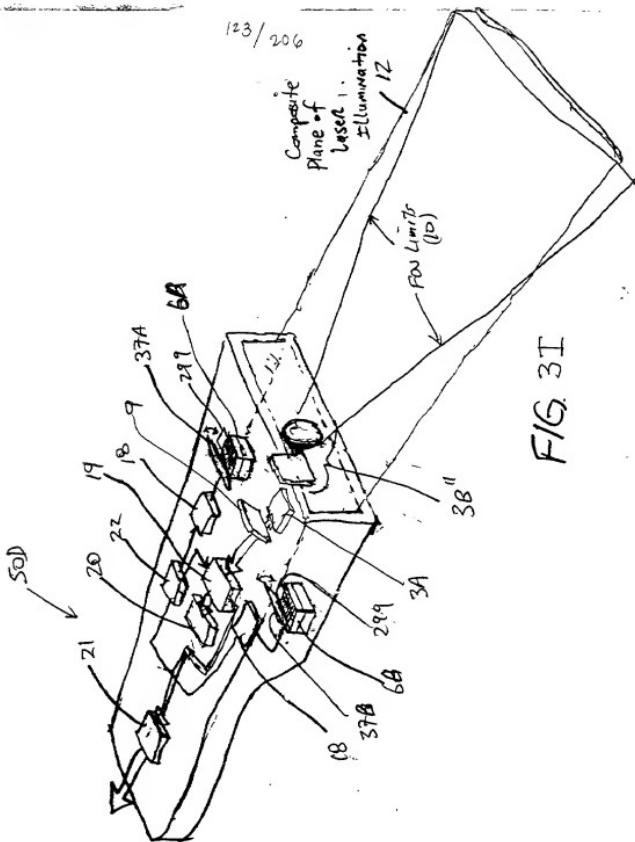
122 / 206

098811-33143860



0 FIG. 3H

1092TT-1078860



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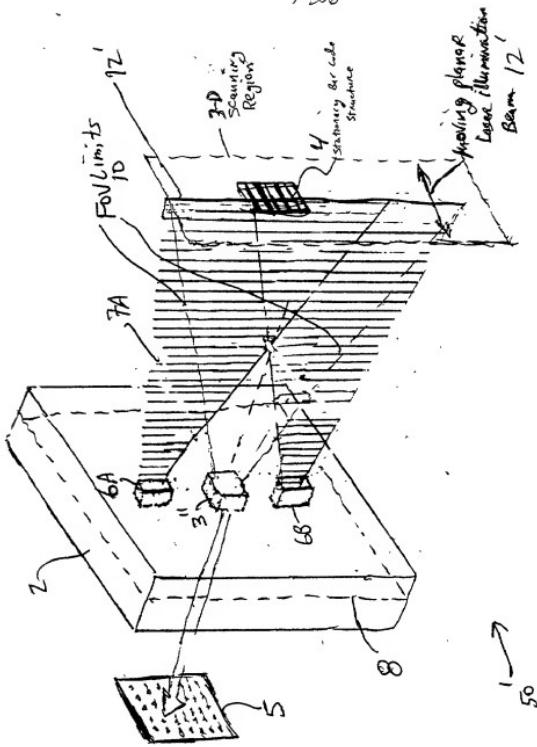


FIG. 3J

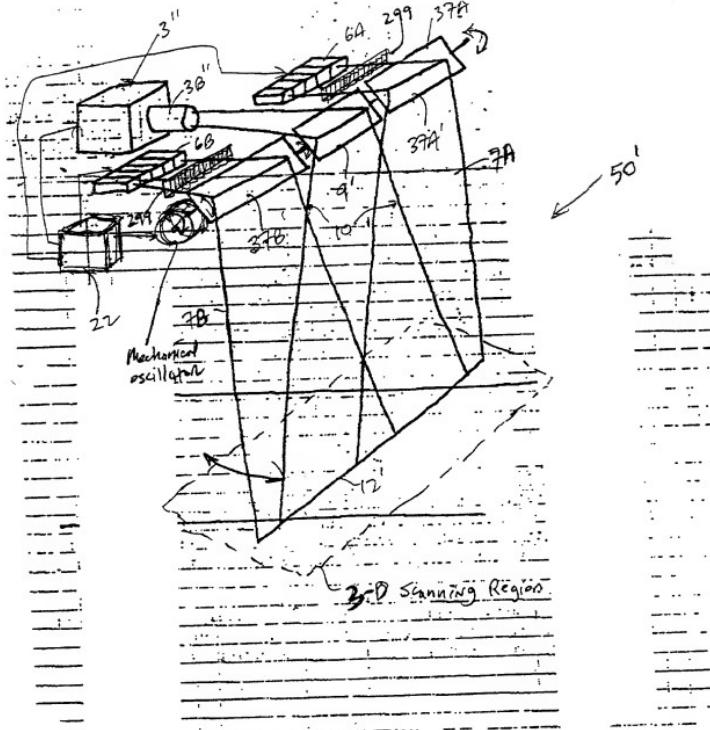


FIG 3J2

605211-111660

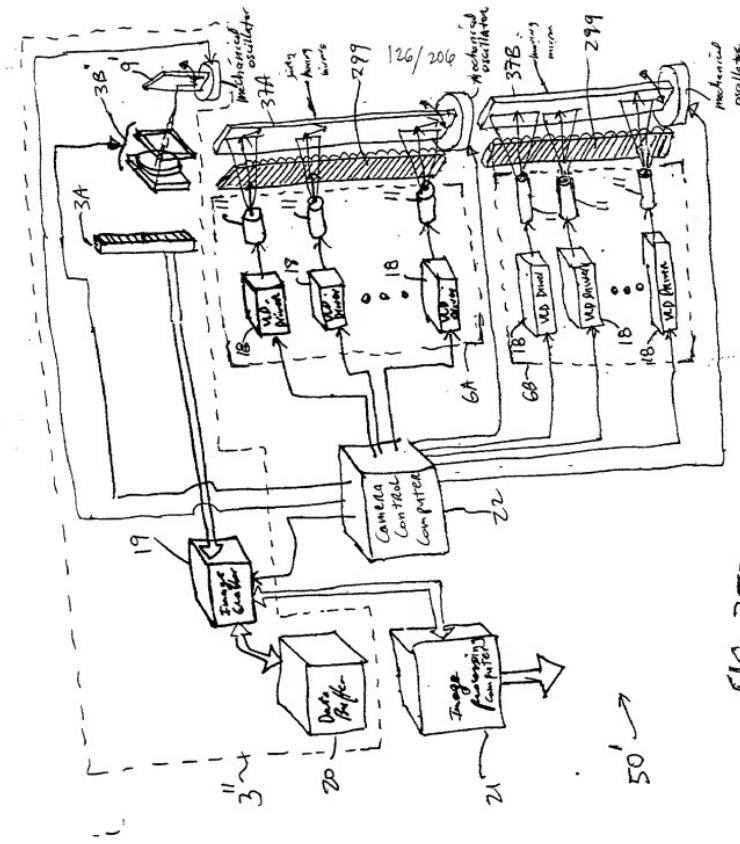


FIG. 3J3

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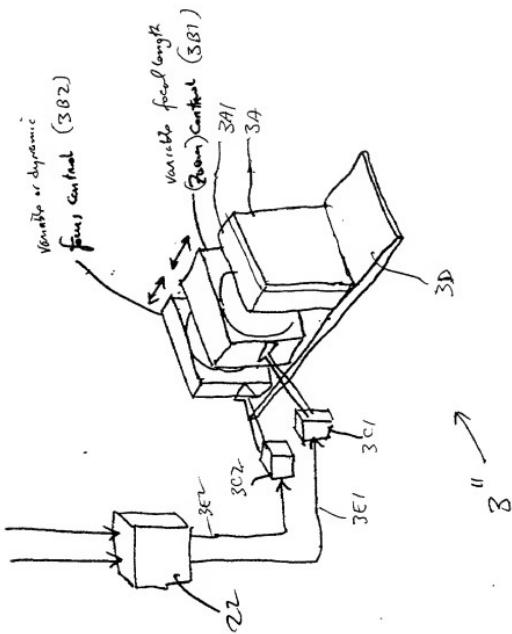


FIG. 354

3" →

TUGGETT - DECEMBER 60

OC

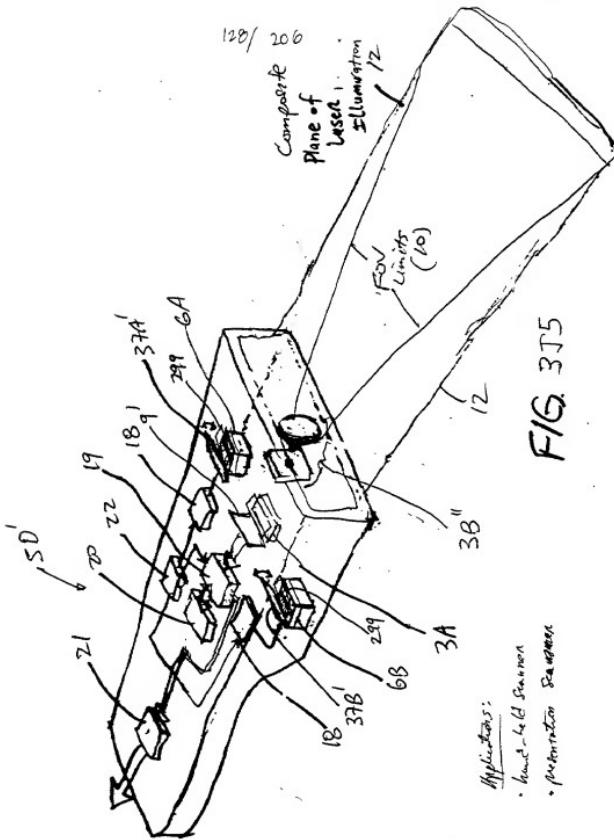


FIG. 375

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038833130 - 038833131

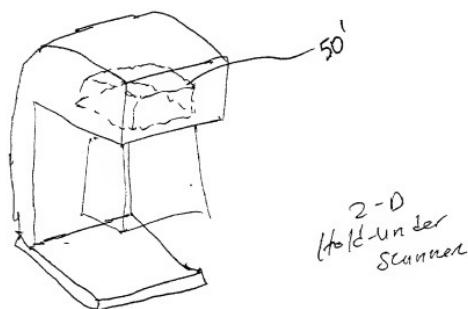


FIG-3J6

TOGETHER DETERMINED

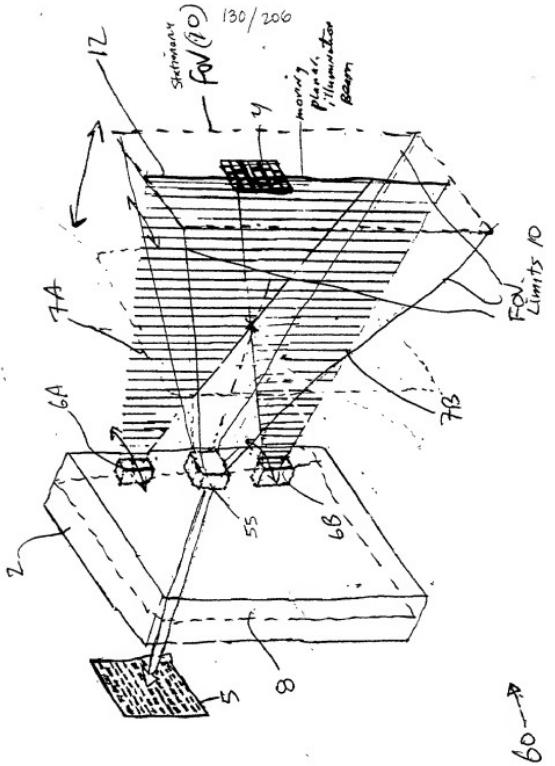


FIG 4A

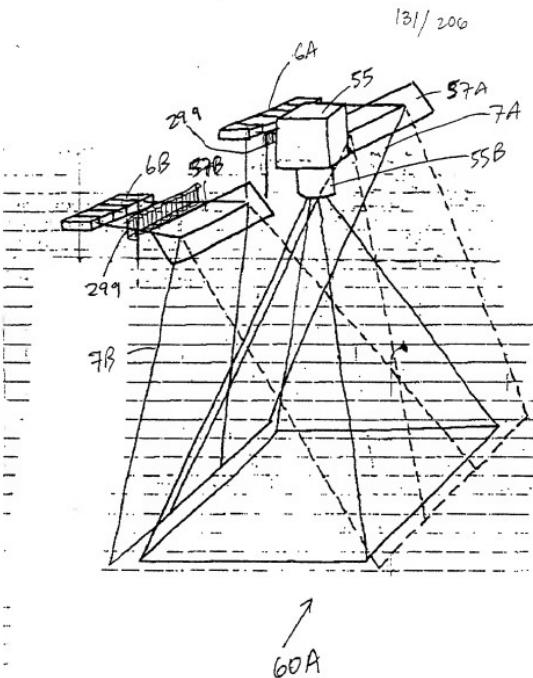


FIG. 4B1

103277-078860

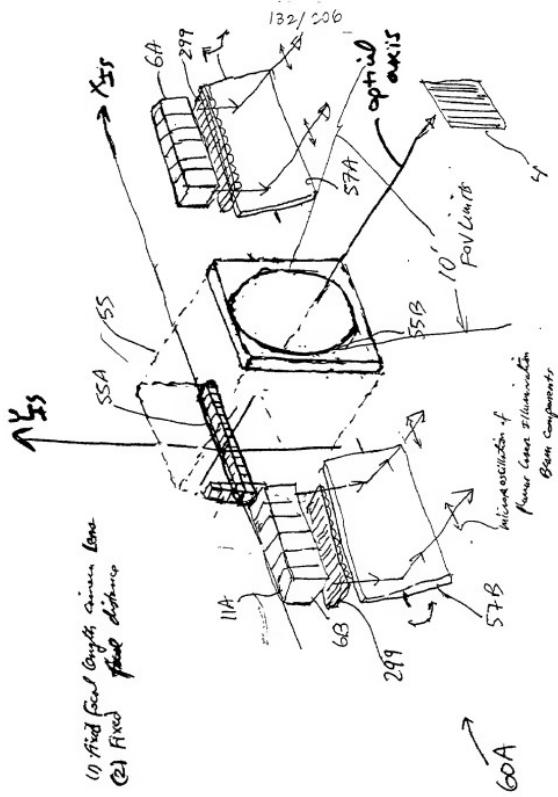


FIG. 4B2

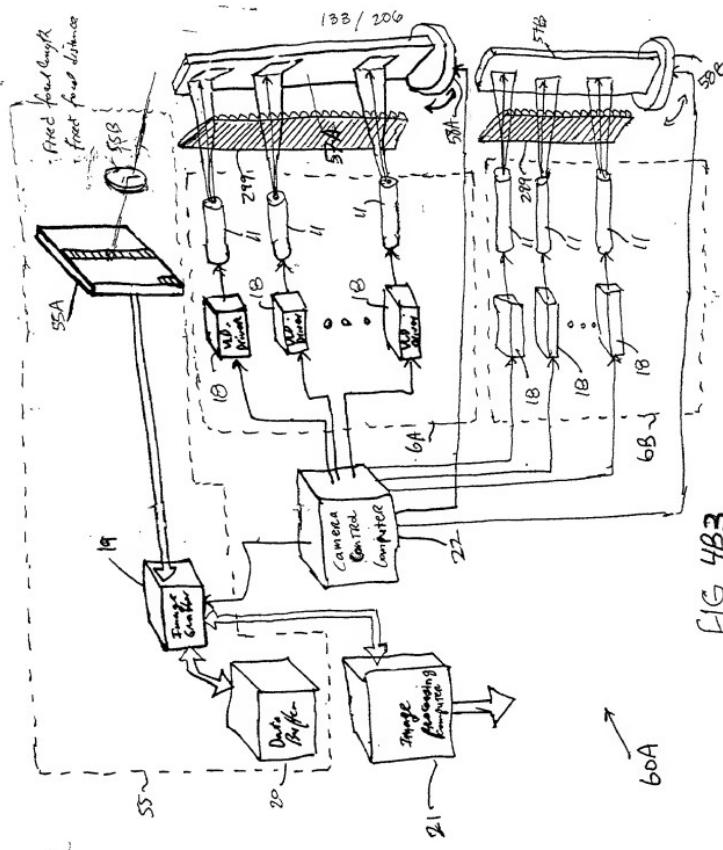


FIG. 4B3

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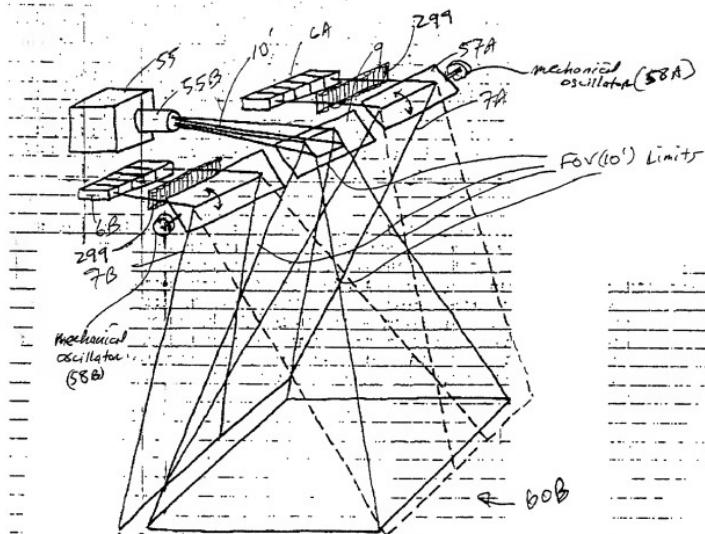
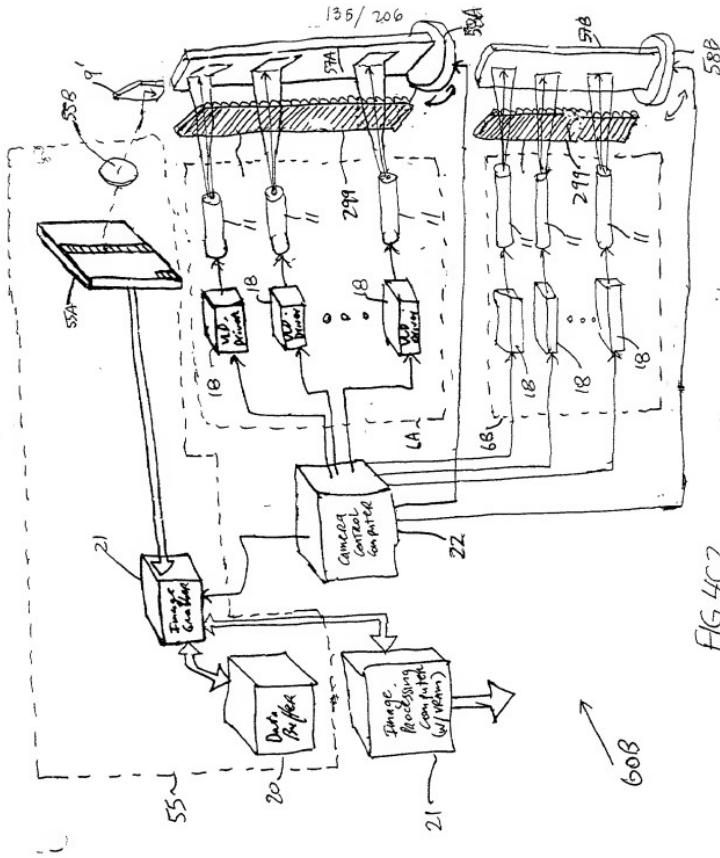


FIG: 461

09883430-112601

0333130 - 五三七六四五



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09983133 - 412501

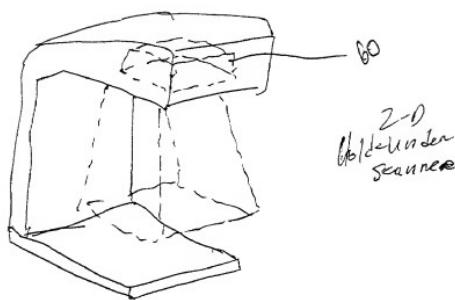
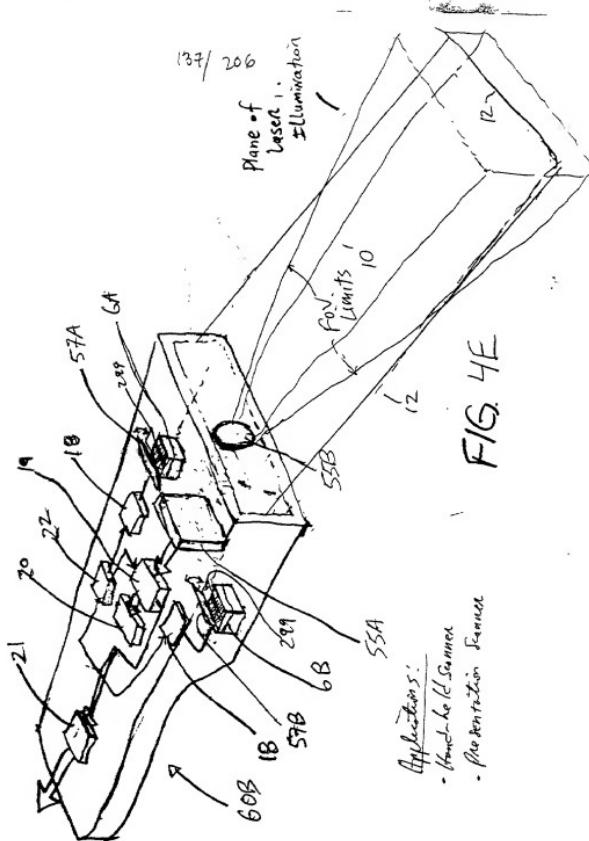


FIG. 4D

TO 93211-0000000

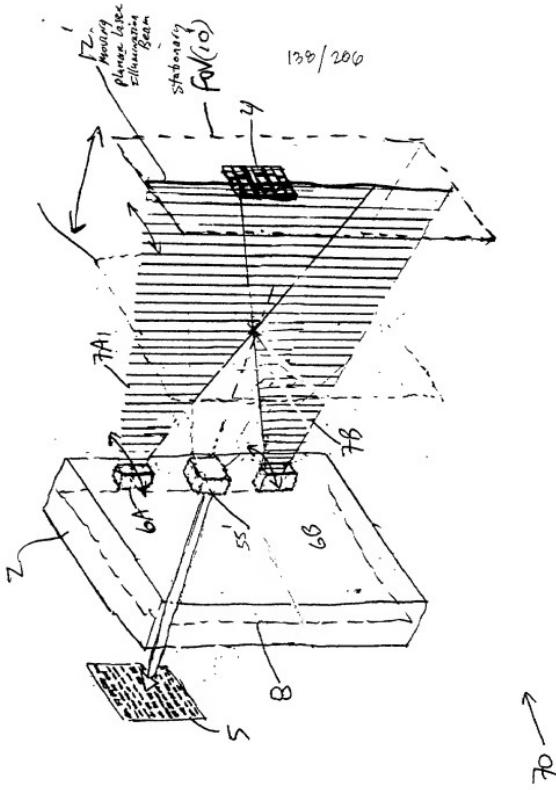


05923430 00002503

11

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09883130-112661

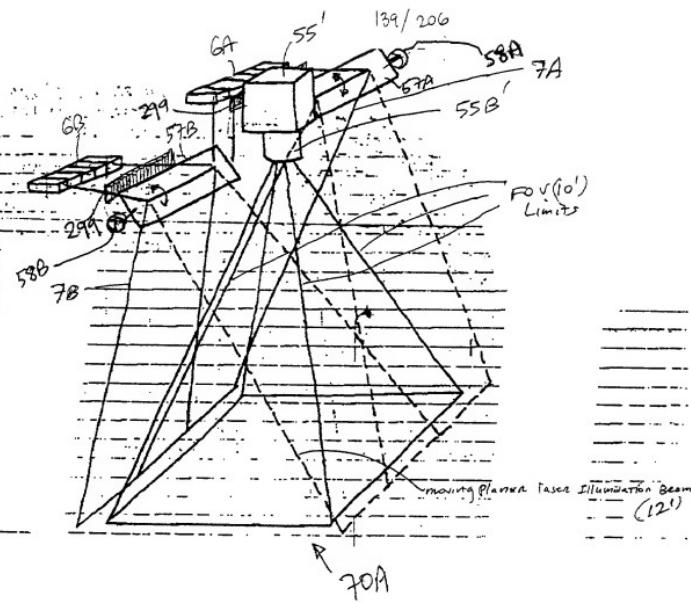
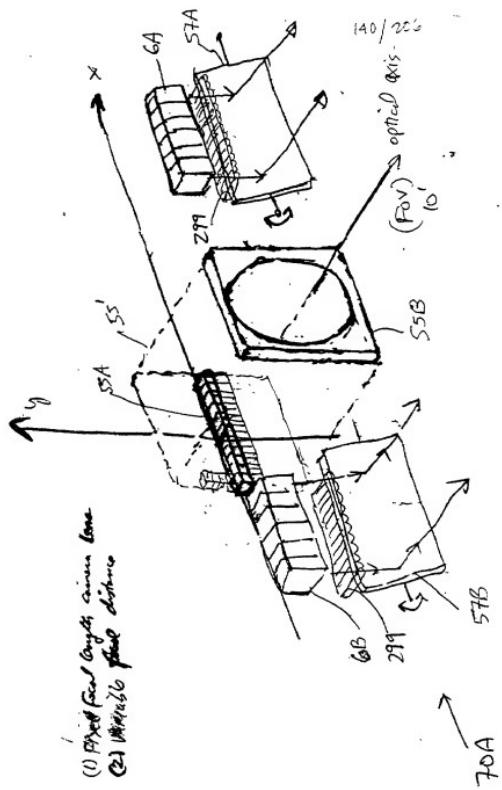


FIG 5B1



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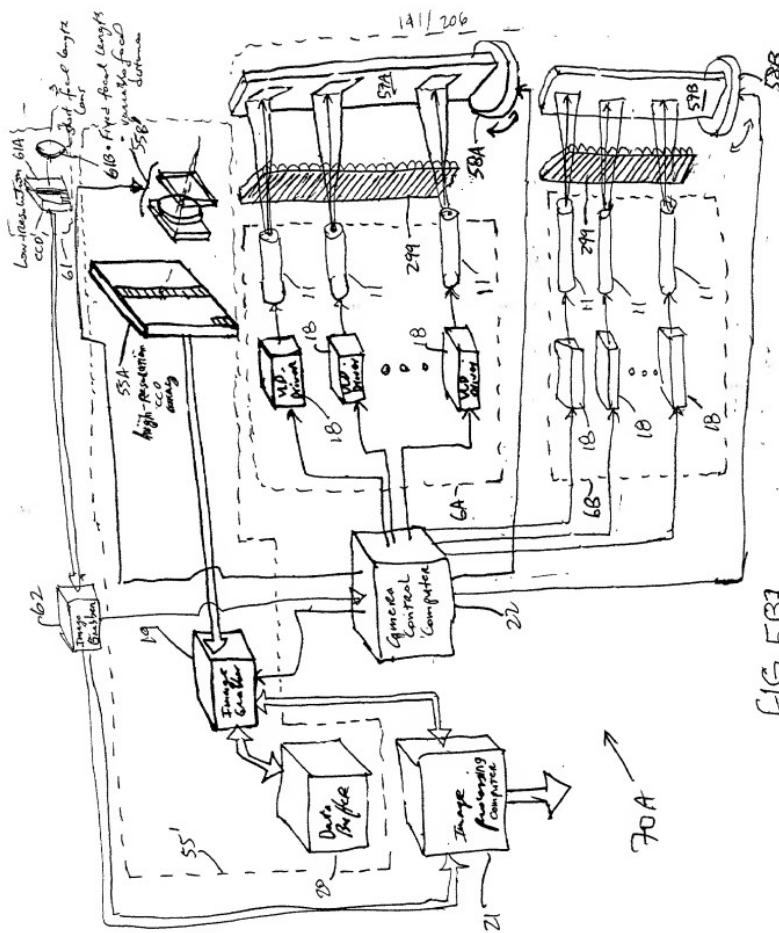
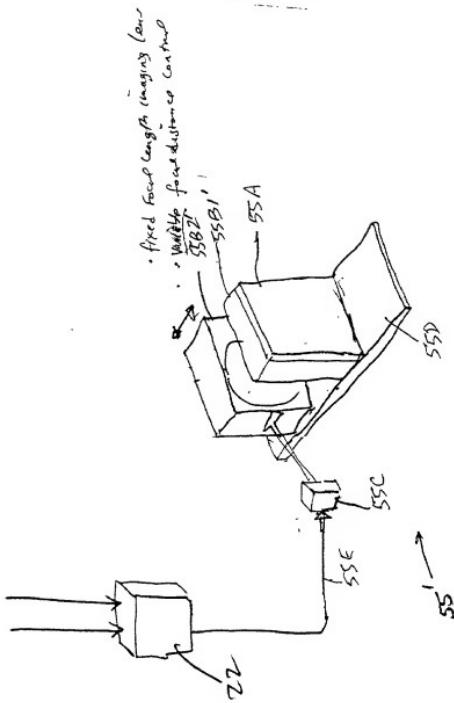


FIG. 5B3

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F/G. 5B4

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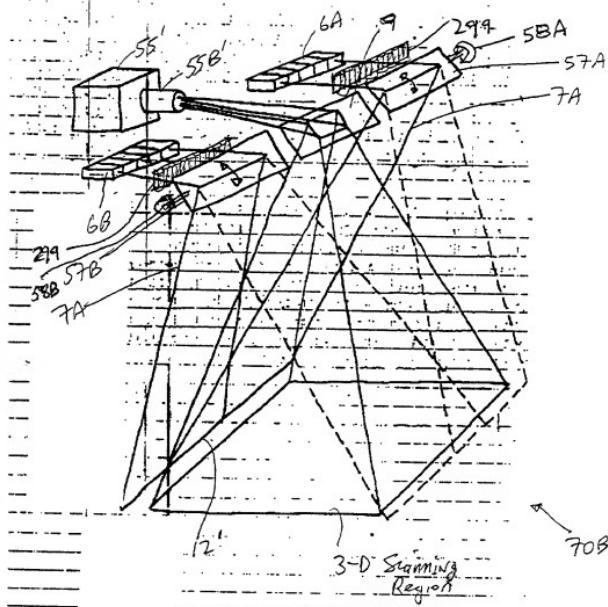


FIG. 5C1

TO92TT-DTE8860

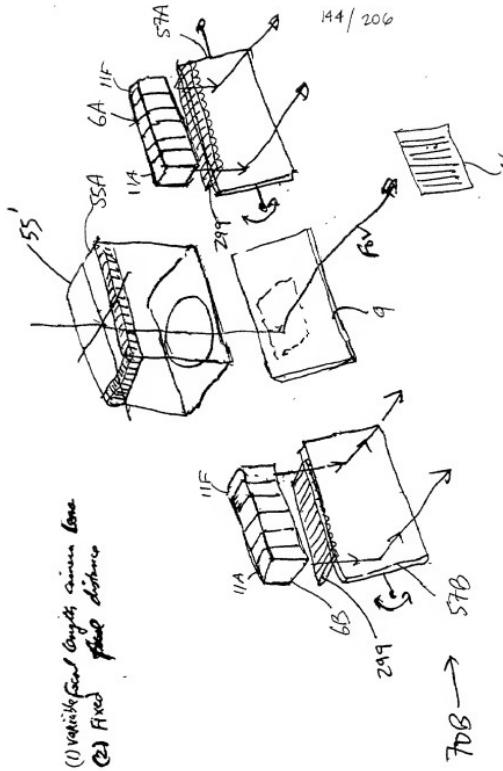


FIG. 5C2

03833  
11260

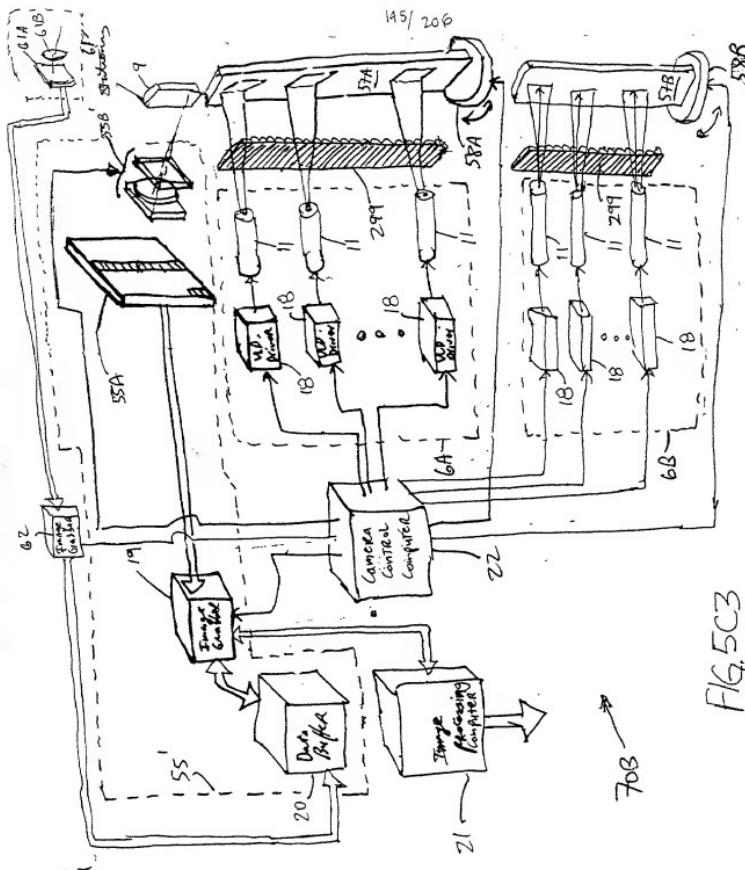
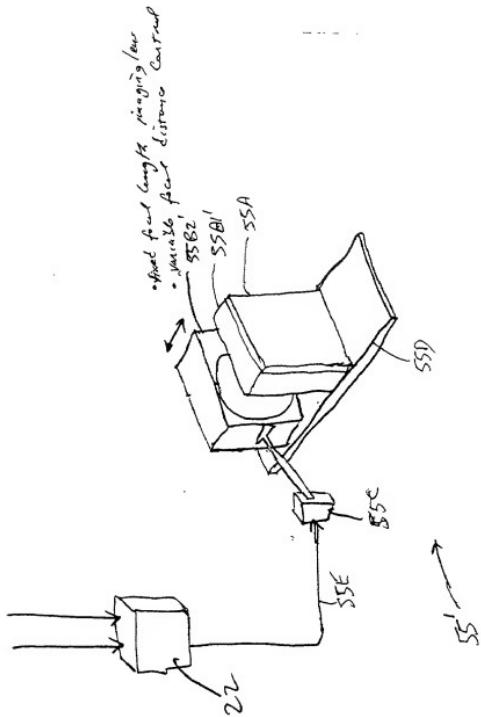


FIG. 5C4



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09883136 • 412601

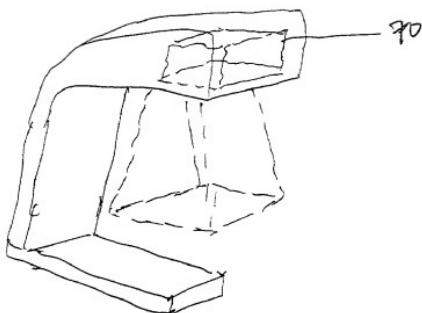


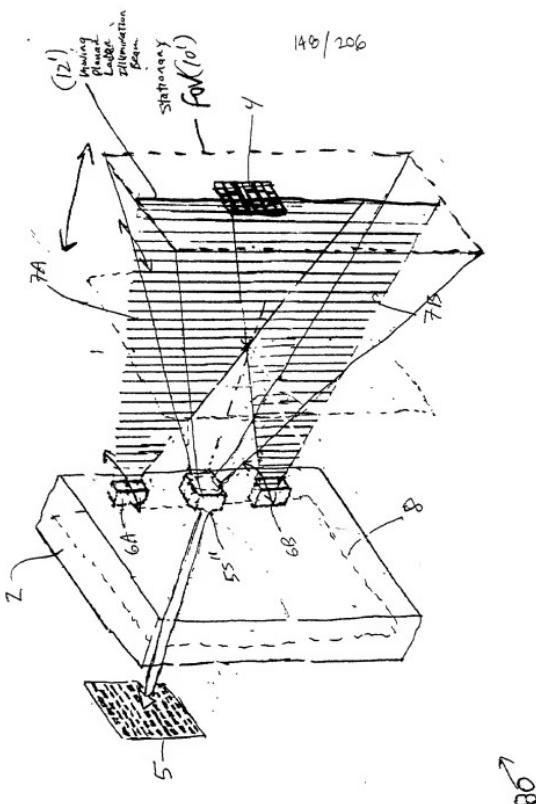
FIG. 5D

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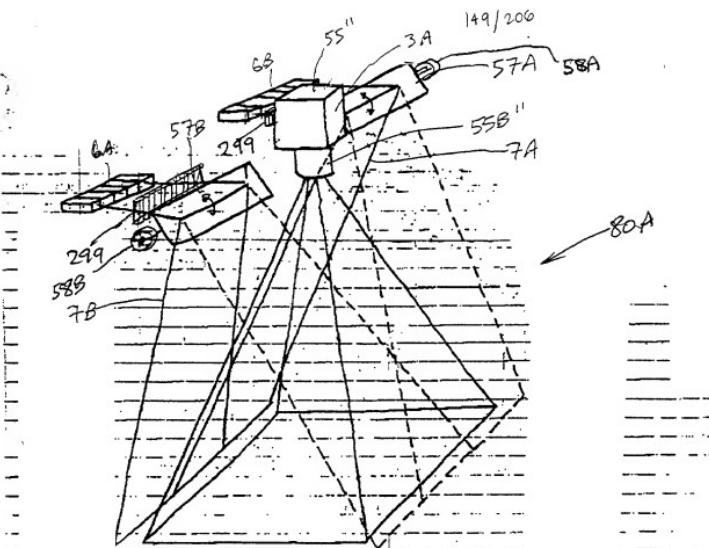


FIG. 6B1

09883136 • 412604

TOSETTI - DETERMINATION

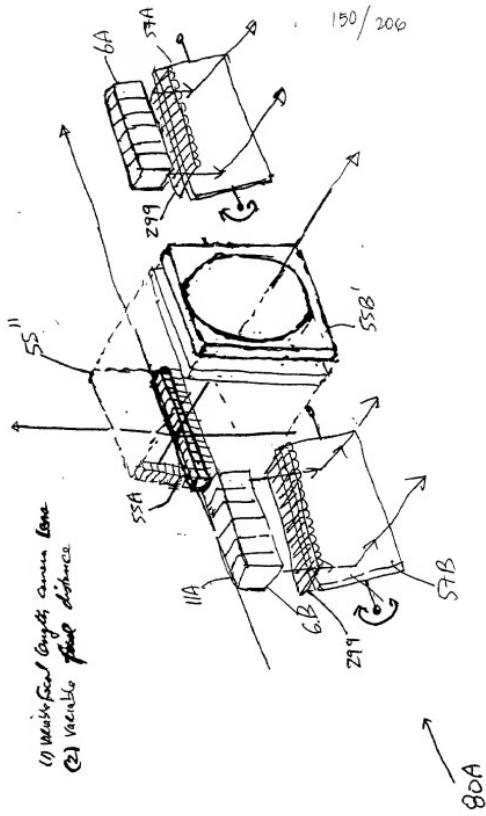
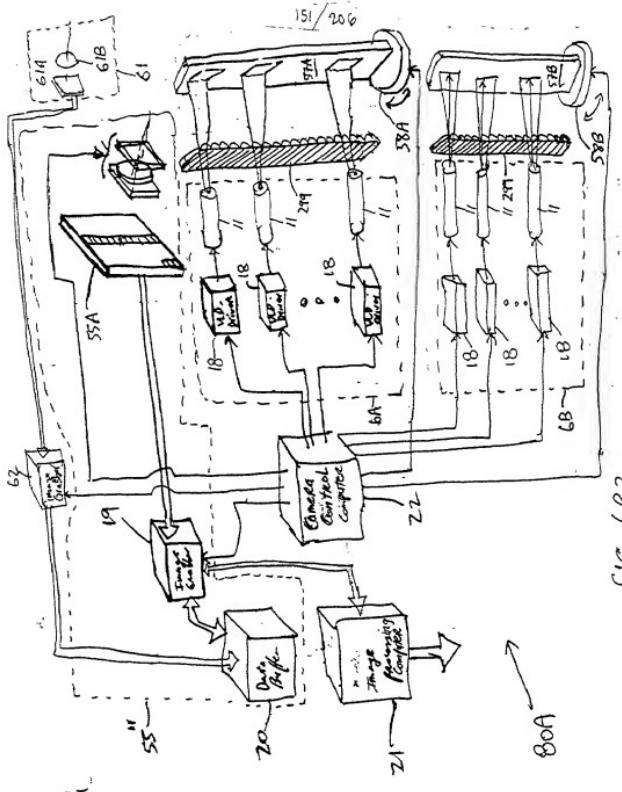


FIG. 6B2

TO92TT "DETESS60



TOGETHER DETERMINED

C

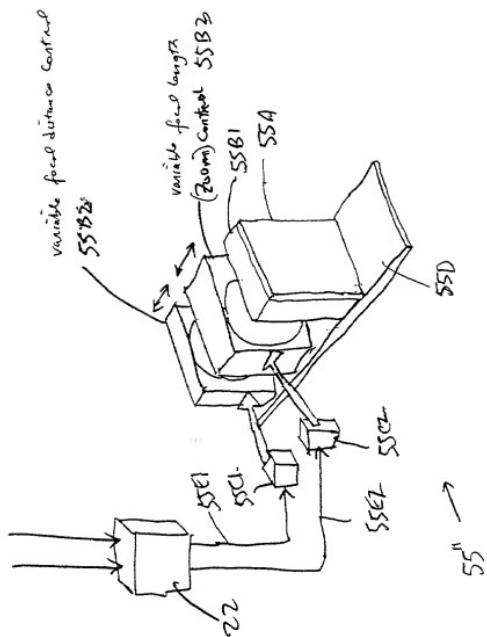
C

1

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1

FIG. 6B4



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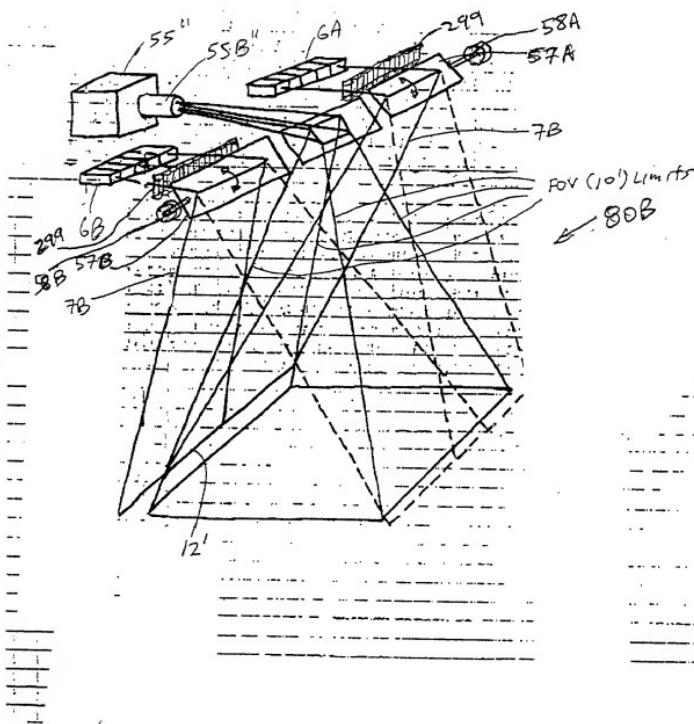
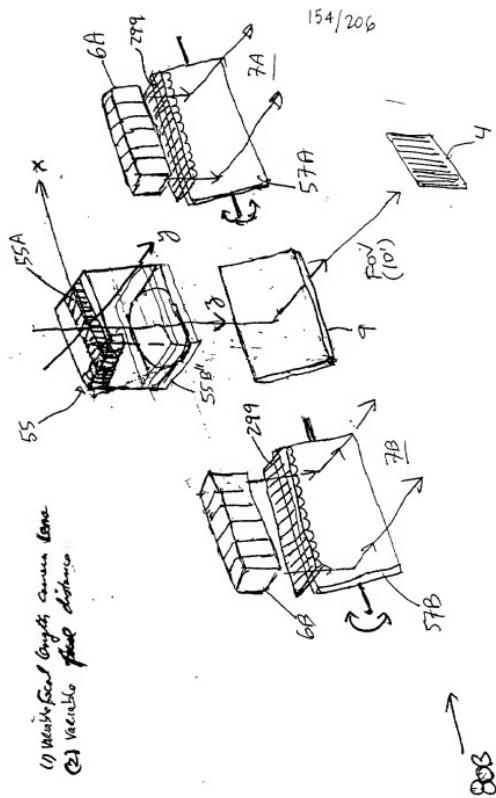


FIG. 6C1

YOSSETT DETERMINO



TOEPLITZ DETERMINANT

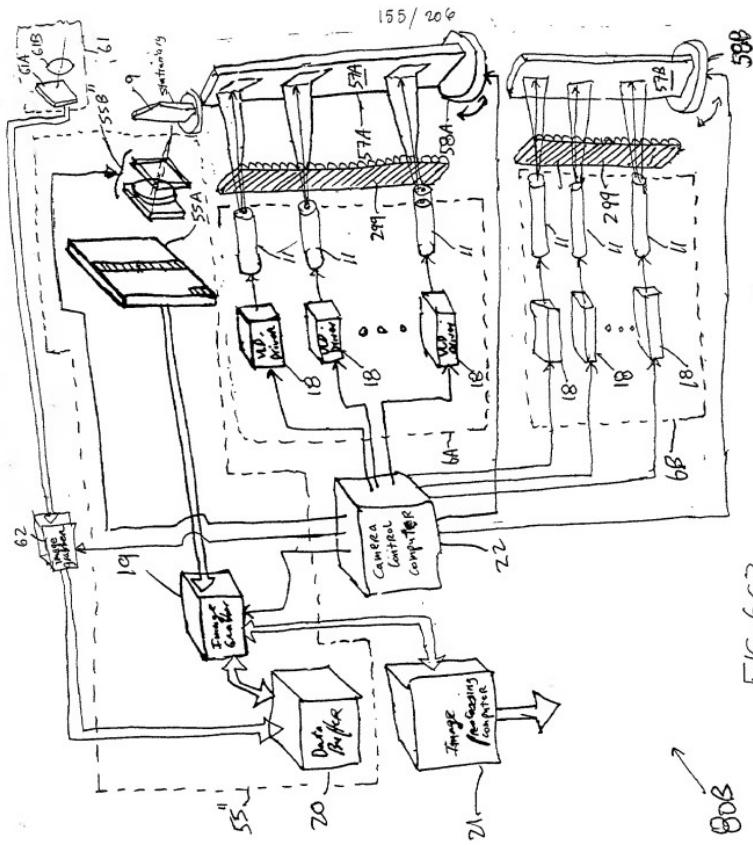
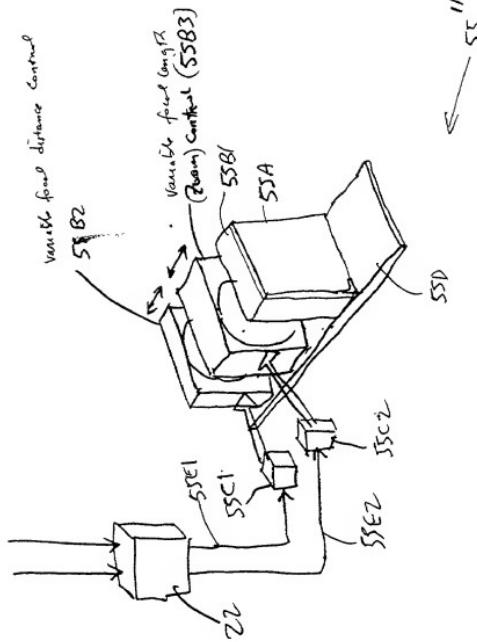


FIG. 6C3

FIG. 6C4



09883130 - 112601

195211-023660

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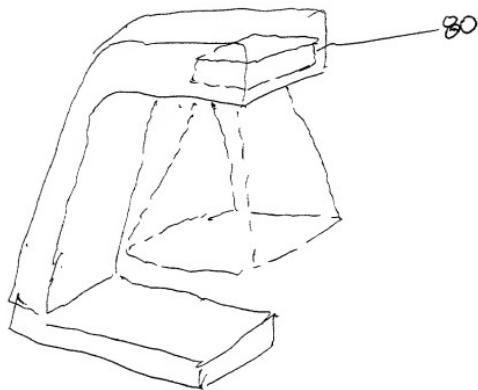


FIG. 6C5

002883130-A12501

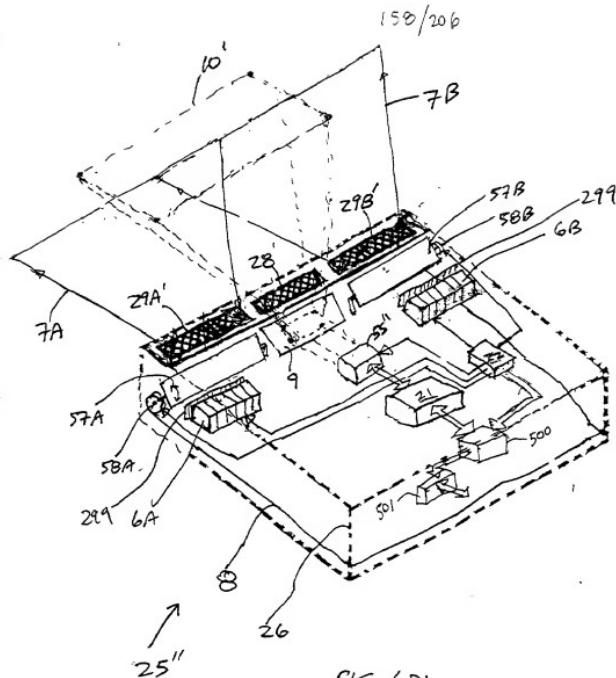


FIG. 6D1

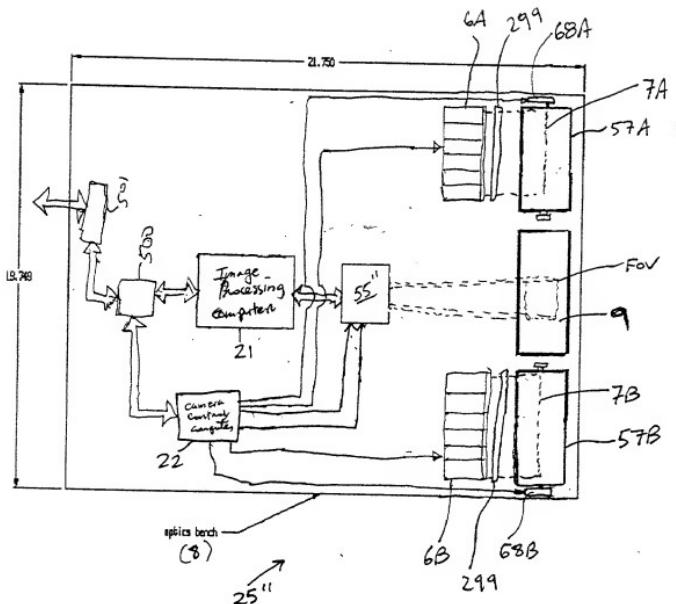


FIG. 6D2

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09883100 - 00000000

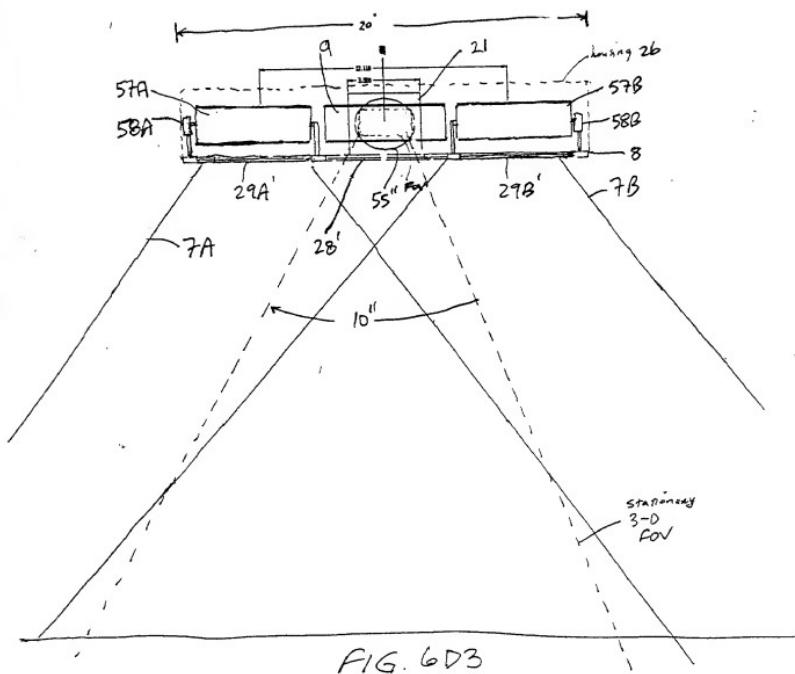


FIG. 6D3

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099823130 - 112611

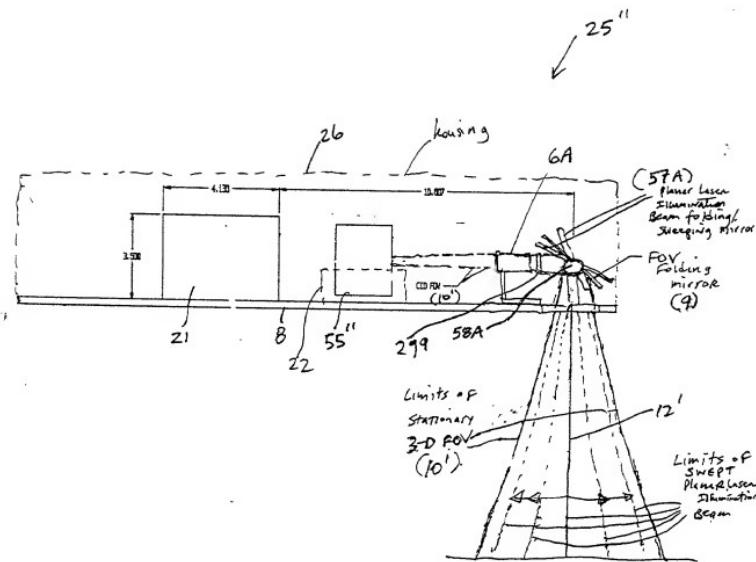


FIG. 6D4

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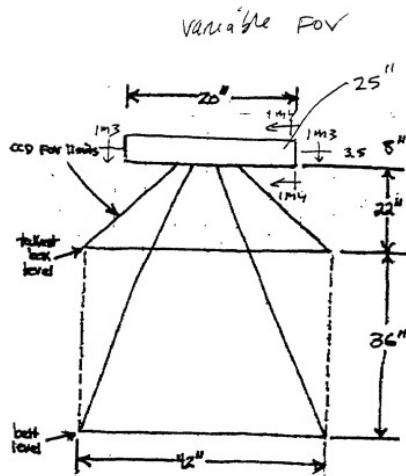


FIG. 6 D5

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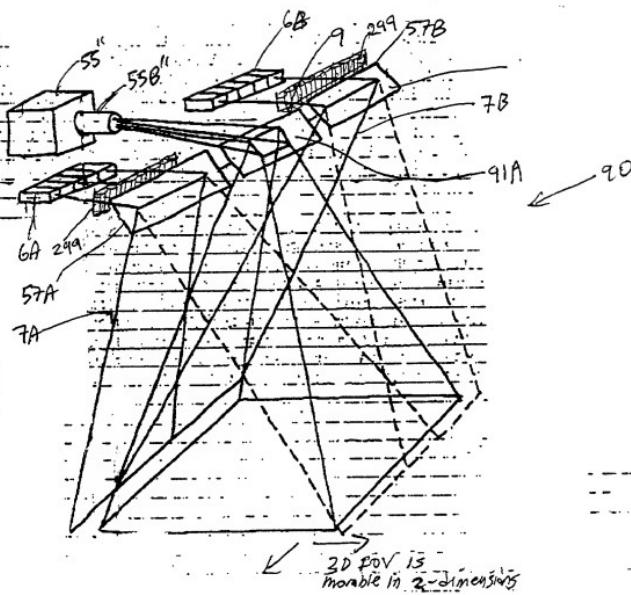
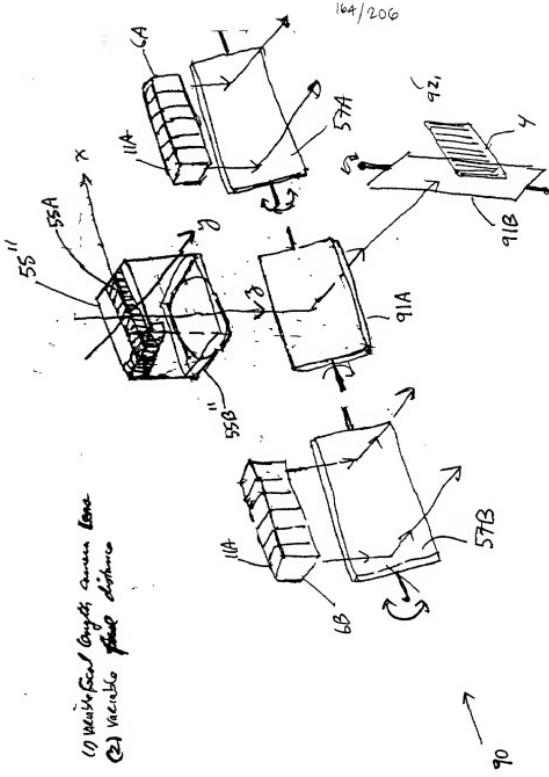


FIG 6E1

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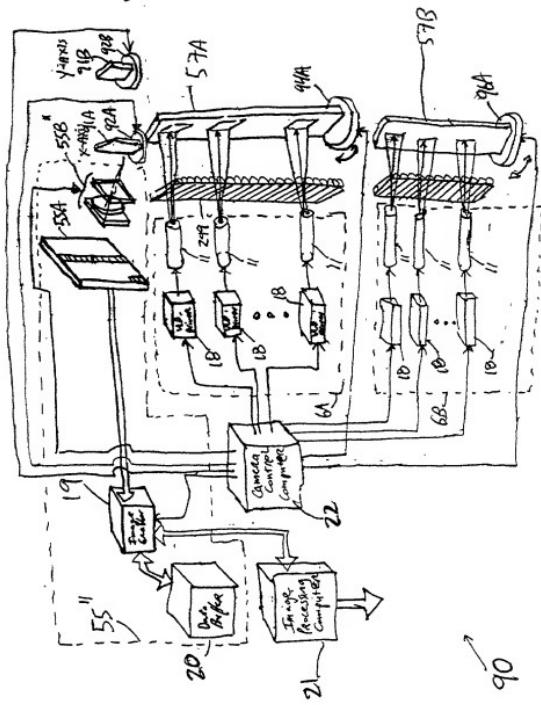
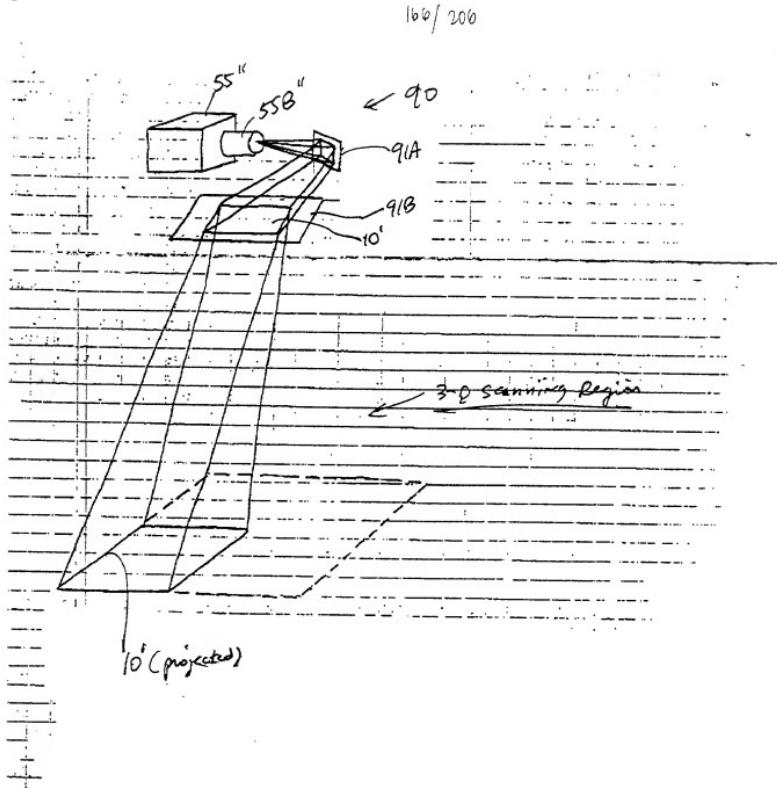


Fig. 663



-- FIG. 6E4

09883130-112601

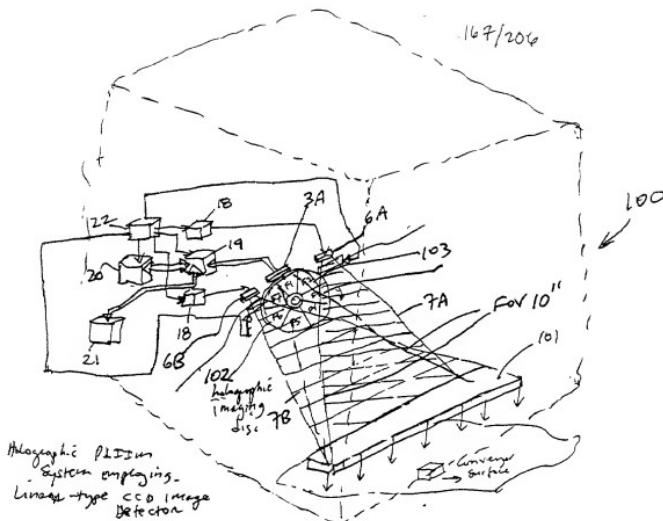


FIG. 7A

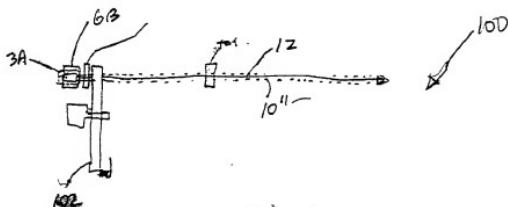


FIG. 7B

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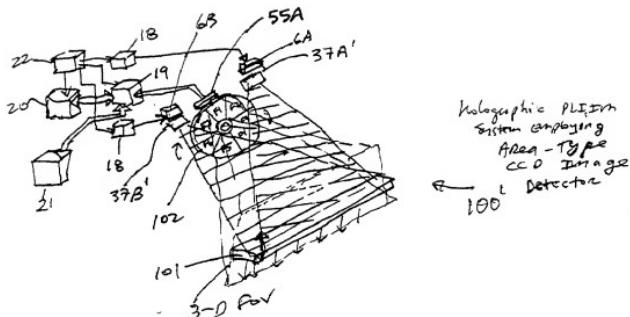


FIG. 8A

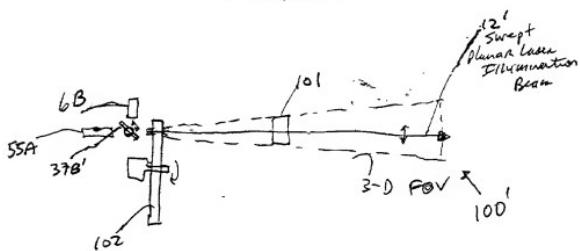


FIG. 8B

TOGETHER DETERMINED

1-D CCD SCANNER EMBODIMENT

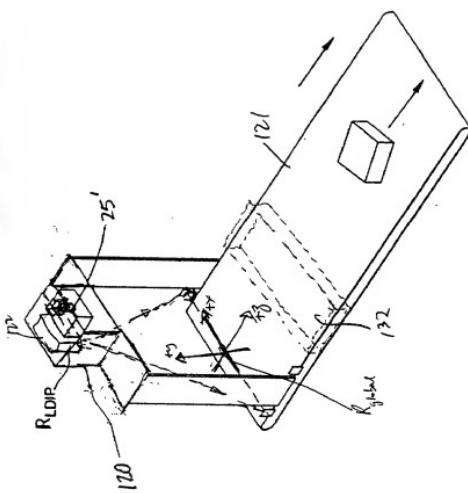
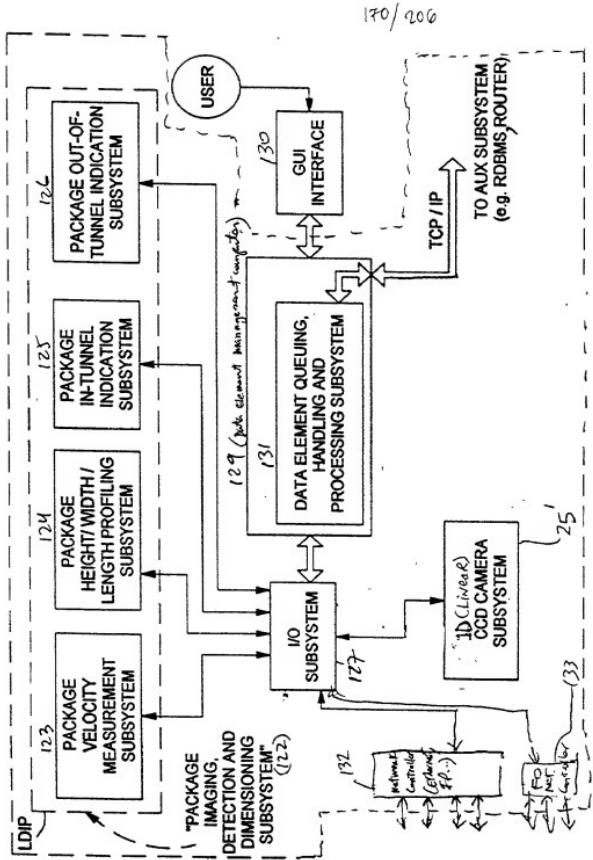


FIG. 9

TODAY'S DETECTION



F/G, 10

120

SYSTEM DESIGN

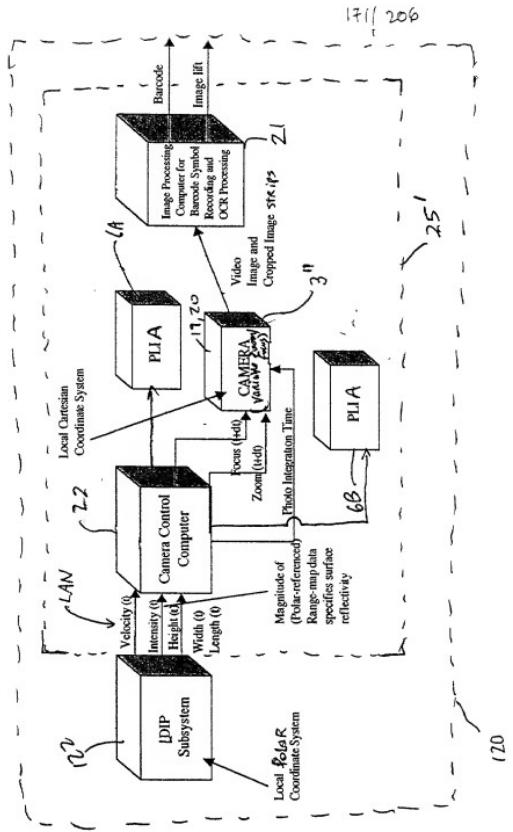


Fig. 11

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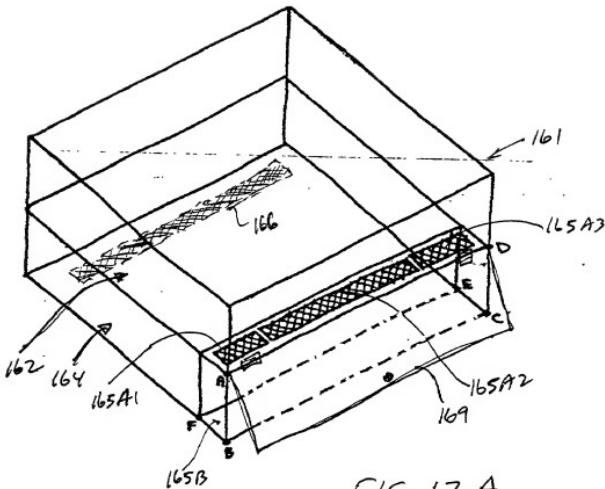


FIG. 12A

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059833130 • 11126011

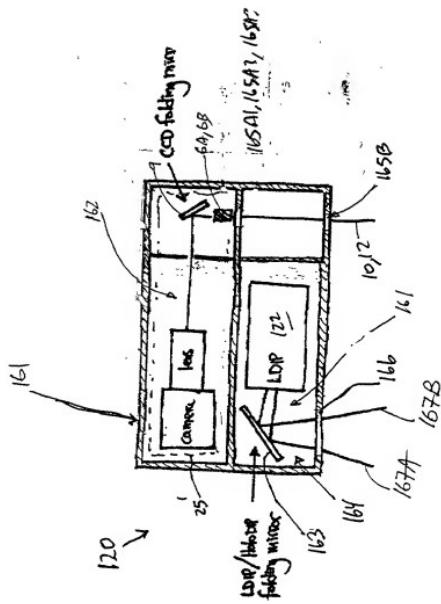


FIG. 12B

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09883130 \* 112501

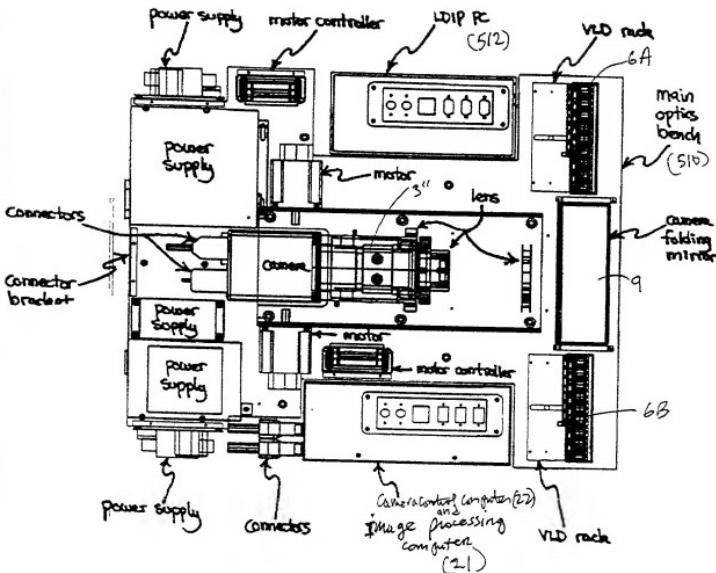


FIG. 12C

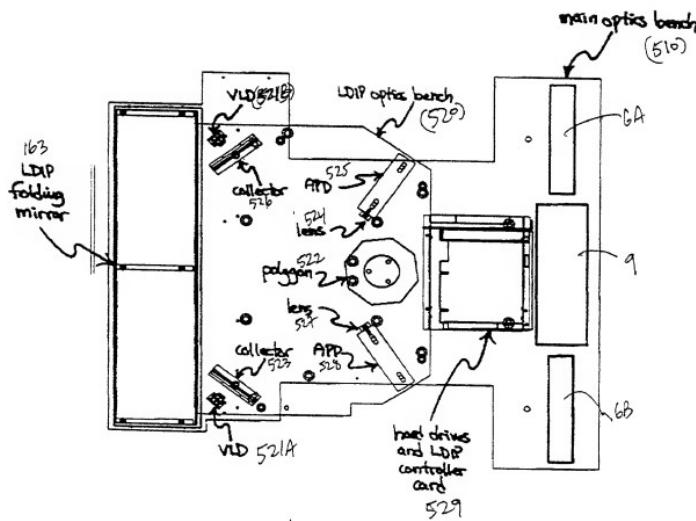
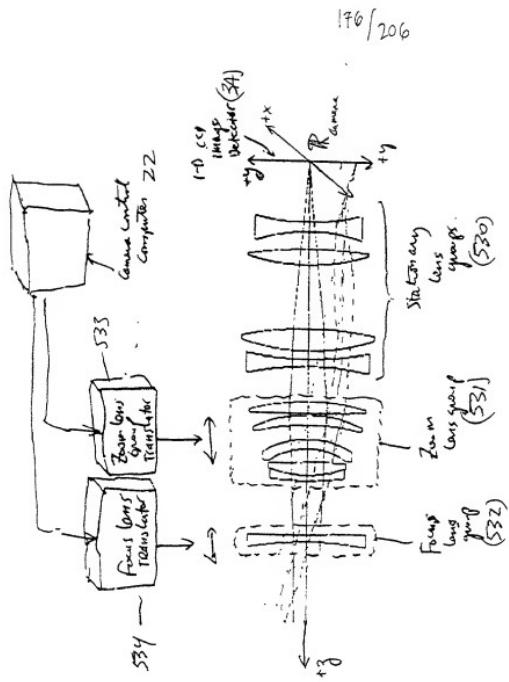


FIG. 12D



(main optics)  
(lens groups)

FIG. 12E

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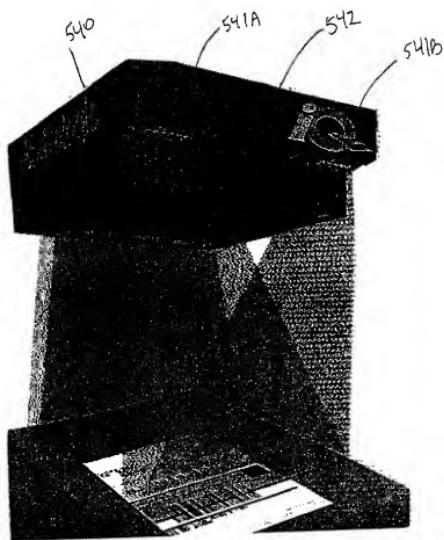


FIG. 13A

009883130 \* 012601

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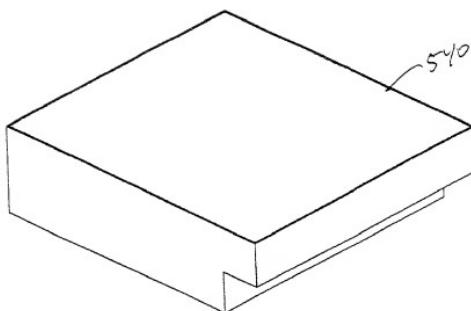


FIG. 13B

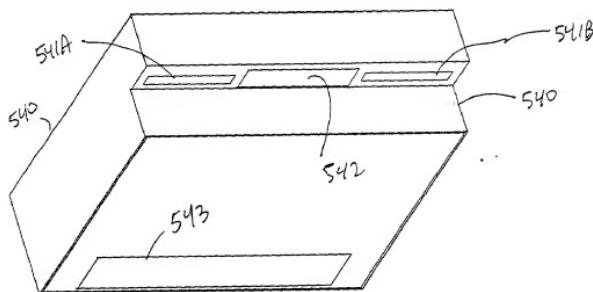


FIG. 13C

PLLIM-BASED PACKAGE IDENTIFICATION AND  
DIMENSIONING (PID) SYSTEM

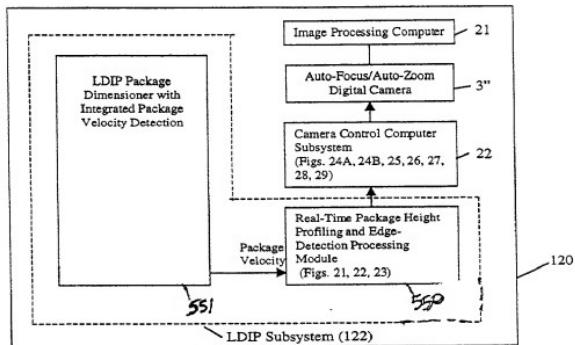


FIG. 14

### LDIP REAL-TIME PACKAGE HEIGHT PROFILE AND EDGE DETECTION METHOD

OBSTACLES  
WALLS  
CEILINGS  
FLOOR

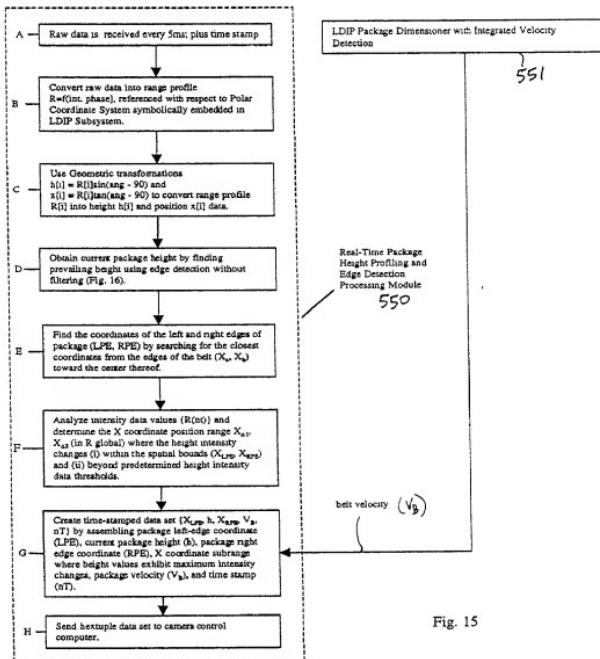
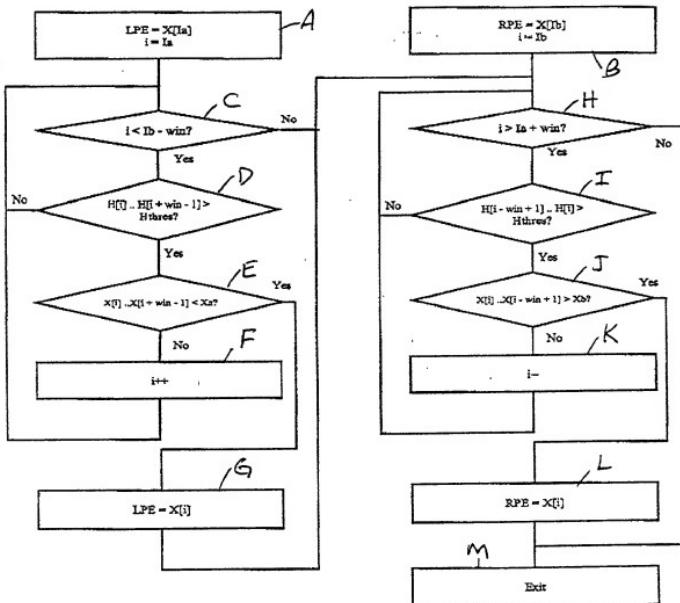


Fig. 15

## LDIP Real Time Package Edge Detection



$X_a$  = location of belt left edge;  $X_b$  = location of belt right edge  
 $i_a$  = belt edge edge pixel;  $i_b$  = belt right edge pixel  
 LPE = Left package edge; RPE = Right package edge  
 $H[]$  = Pixel height array;  $X[]$  = Pixel location array  
 $\text{win}$  = package detection window

FIG. 16

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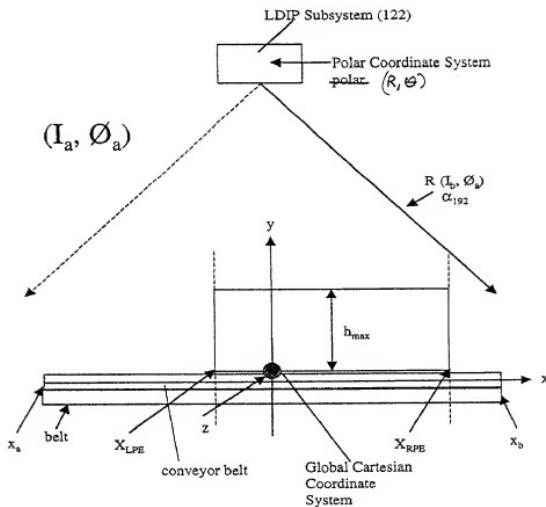


Fig. 17

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INFORMATION MEASURED AT SCAN ANGLES BEFORE  
COORDINATE TRANSFORMS

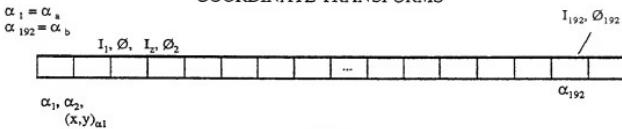


Fig. 17A

RANGE AND POLAR ANGLE MEASURES TAKEN AT SCAN  
ANGLE  $\alpha$  BEFORE COORDINATE TRANSFORMS



Fig. 17B

MEASURED PACKAGE HEIGHT AND POSITION VALUES  
AFTER COORDINATE TRANSFORMS

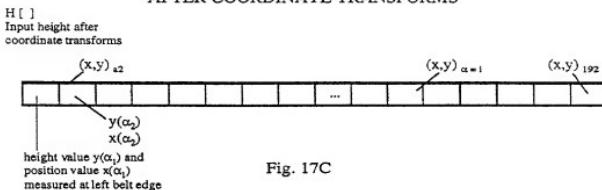


Fig. 17C

CAMERA CONTROL PROCESS CARRIED OUT WITHIN THE  
CAMERA CONTROL SUBSYSTEM OF EACH OBJECT ATTRIBUTE ACQUISITION  
AND ANALYSIS SYSTEM

560

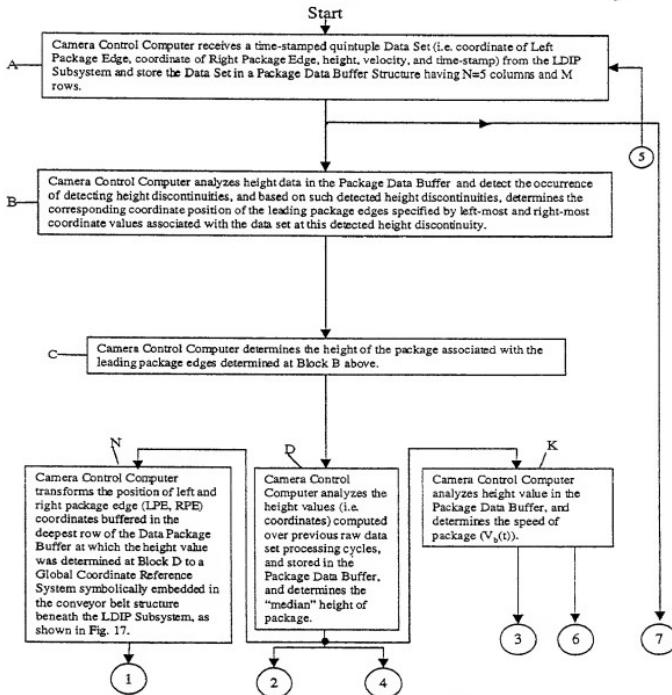


Fig. 18A

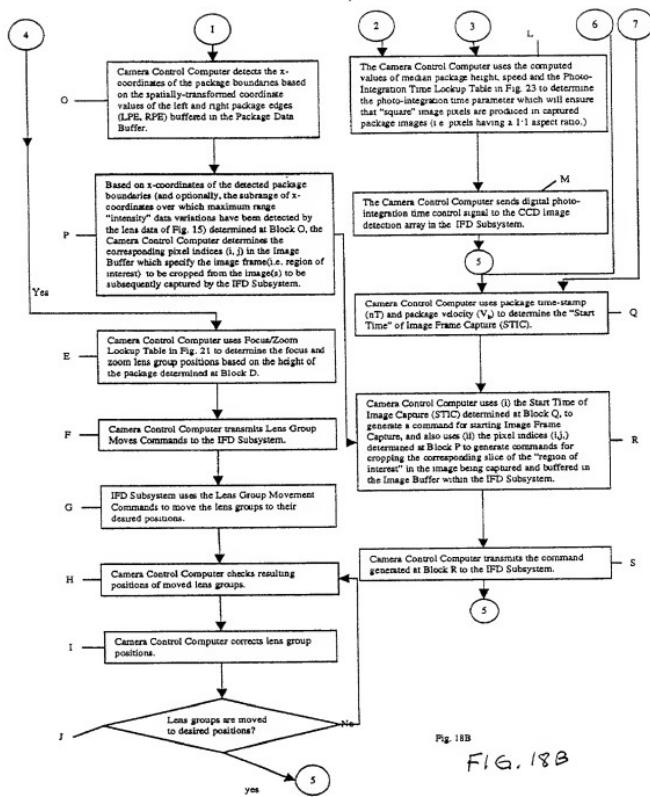


FIG. 18B

FIG. 18B

DETECTOR = 00000000

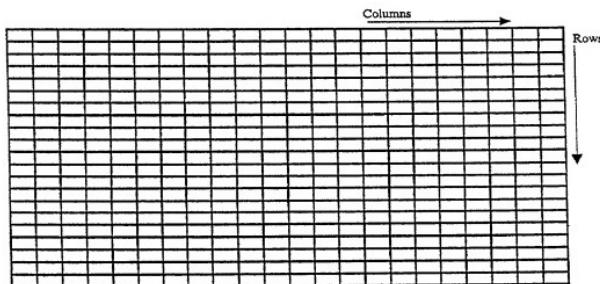
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x coordinate subrange where maximum range "intensity" variations have been detected

Left Package Edge (LDE)	Right Package Edge (RPE)	Package Velocity	Time-stamp (nT)
			Row 1
			Row 2
			Row 3
			Row 4
			Row 5
			Row M

Package Data Buffer (FIFO)

Fig. 19



Camera Pixel Data Buffer  
pixel indices ( $i, j$ )

Fig. 20

# PROJECT - DEVERSE

Zoom and focus lens group position  
lens-focusing Table

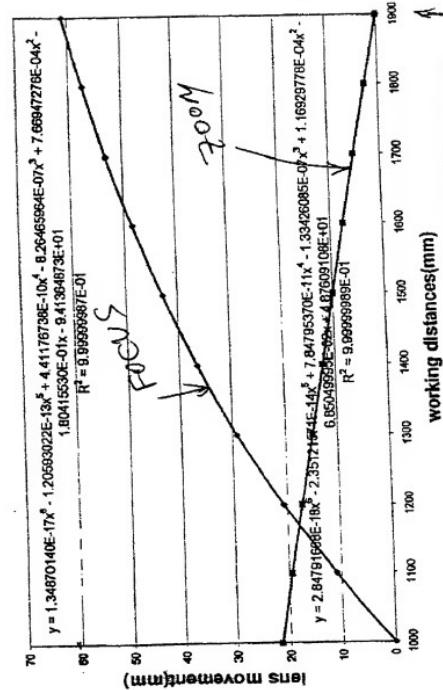
Distance from Camera H (mm)	Zoom group distance (mm) Y (Zoom)	Focus group distance (mm) Y (Focus)
1000	21.5748228	2.47E-05
1100	19.3908956	10.900079783
1200	17.1067434	20.65763177
1300	14.77137314	28.10917002
1400	12.3915365	36.47312595
1500	9.979114358	42.67645436
1600	7.540639114	48.44003358
1700	5.076794775	53.25495831
1800	2.565089366	57.40084303
1900	0.099572739	60.98883616
		(use interpolation technique for working distances between listed points in Table )

Fig. 21

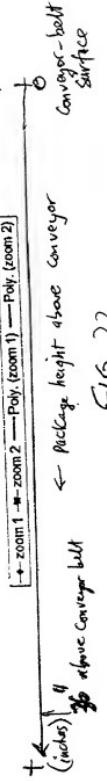
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Note: On final listening & Exam (After final class) -  
canada has a  
canadian accent.  
canada has a  
canadian accent.



Focus  $\oplus$  Zoom lens movement vs. working distances



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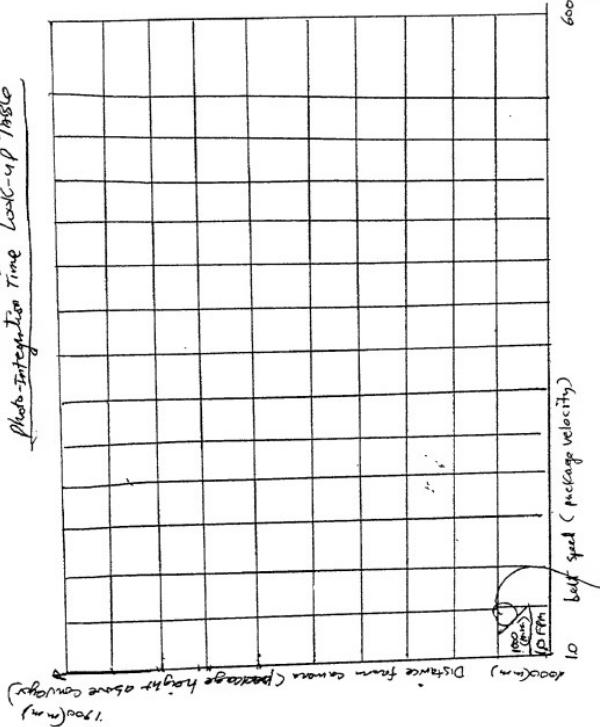


FIG. 23  
Photo-interpretation  
from which the  
earlier square image pixels  
are assigned ratios

FIGURE FORTY-EIGHT

)

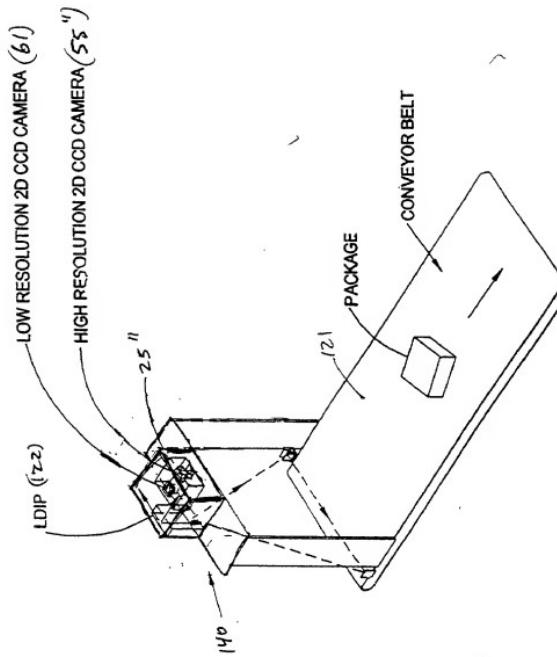


FIG 24

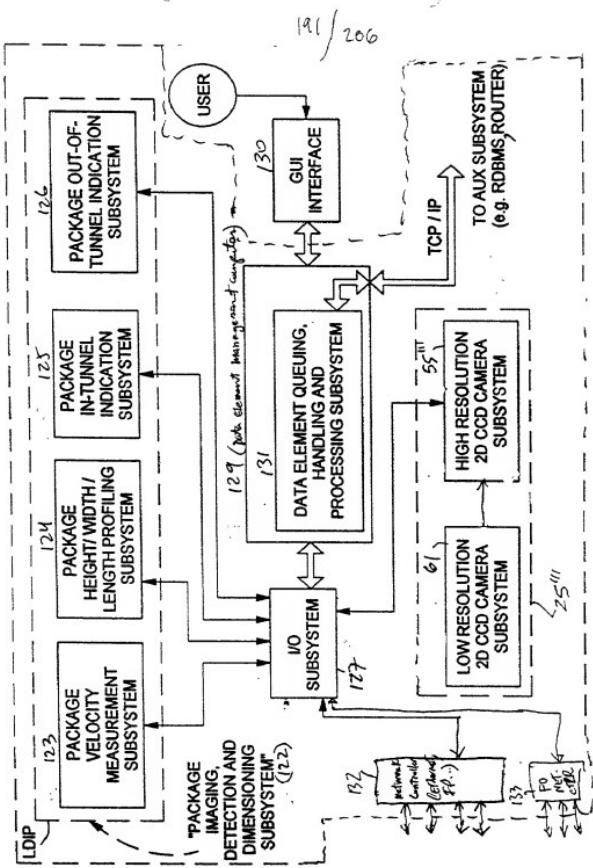


Fig. 25

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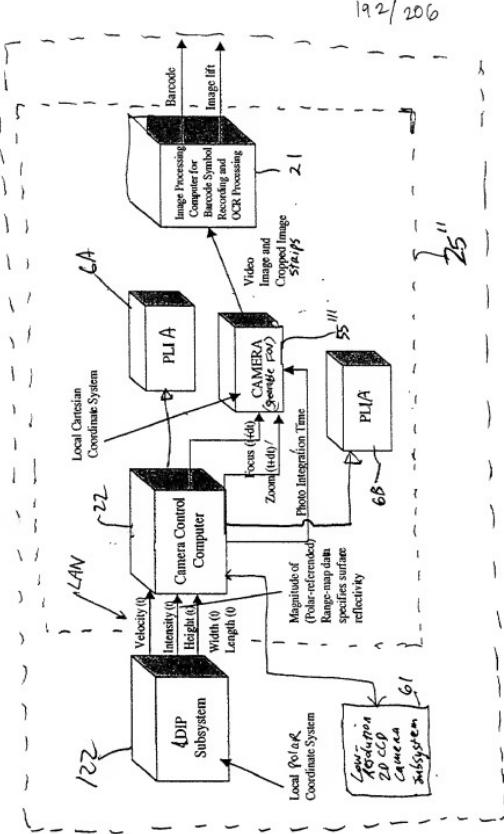
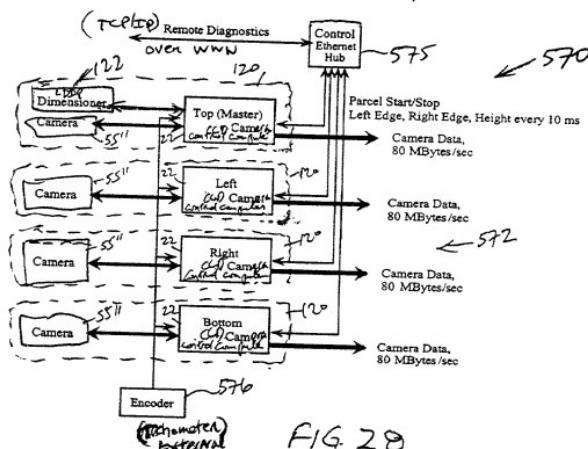
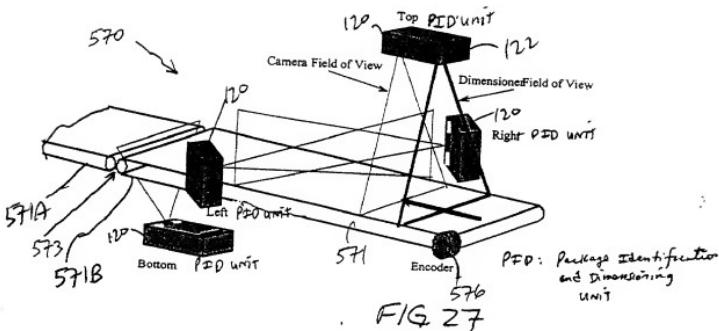


FIG. 26

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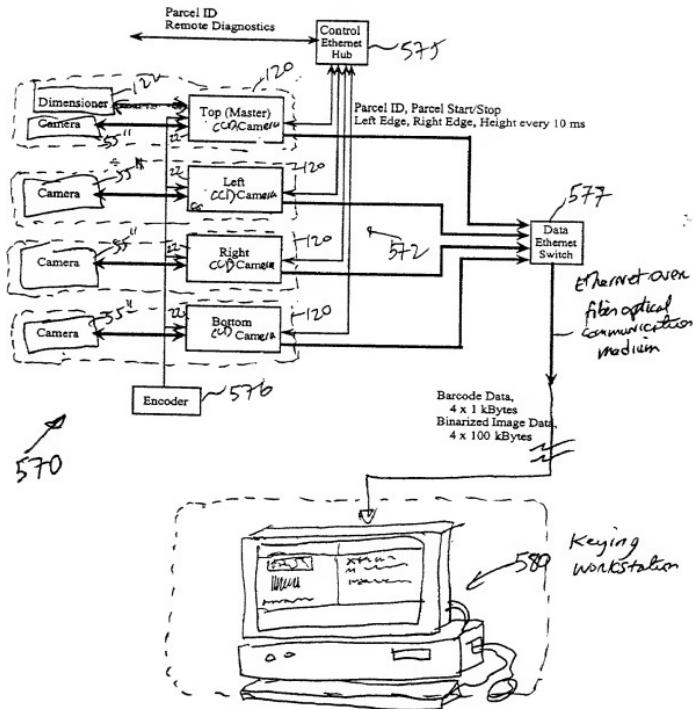
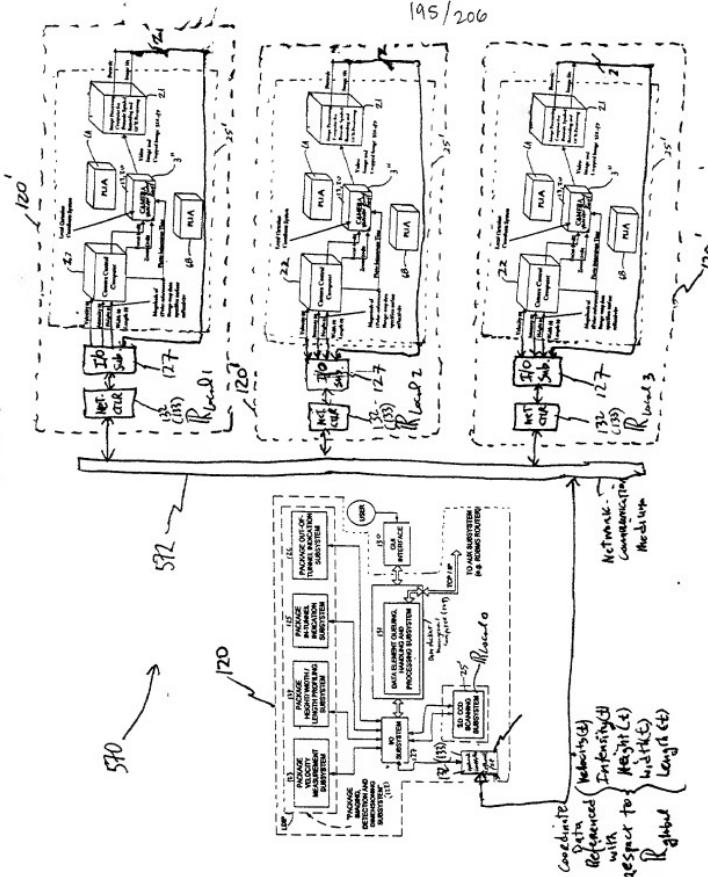
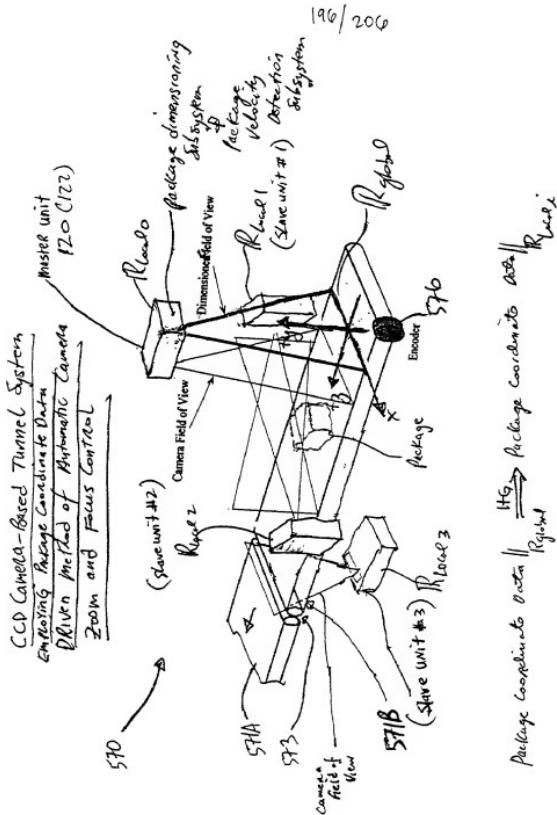


FIG. 29

TESTING DETERMINED



## TARGET DETERMINATION



Package coordinates over  $\parallel_{R_{global}}$   $\xrightarrow{H_G}$  Package coordinates over  $\parallel_{R_{local}}$

FIG. 31

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TOSEND - DETER860

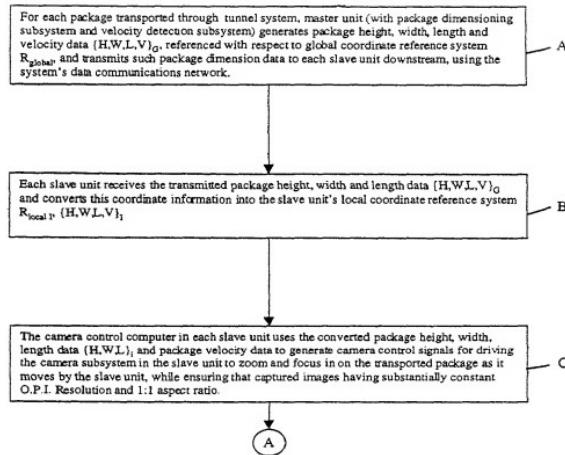


FIG. 32A

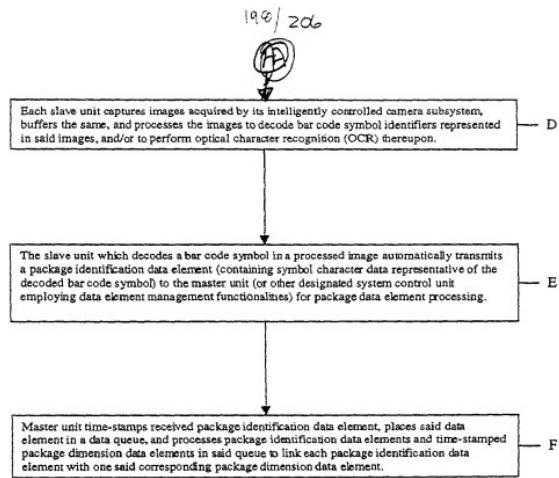


FIG. 32B

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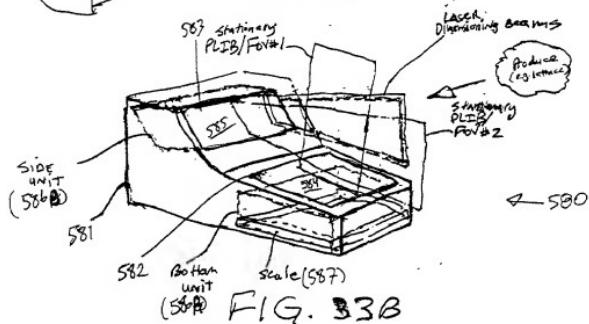
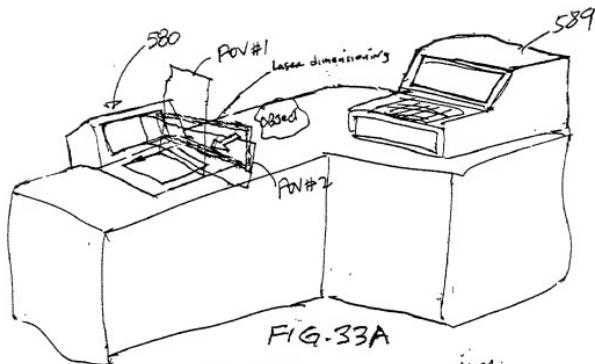


FIGURE 331 DELETED

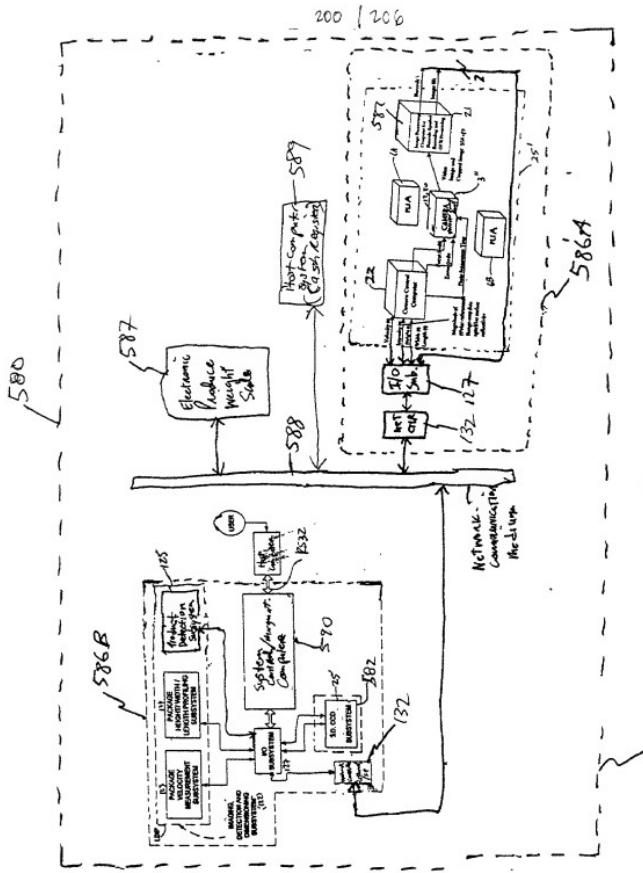


FIG. 33C

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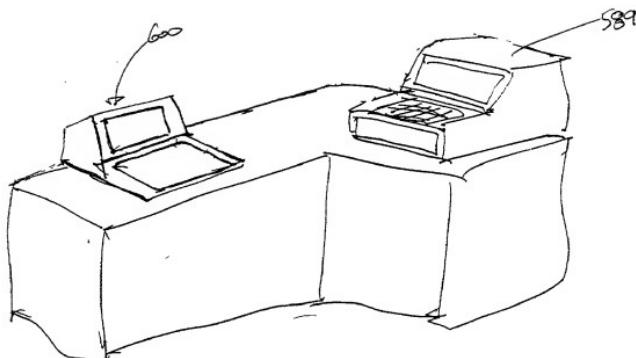


FIG. 34A

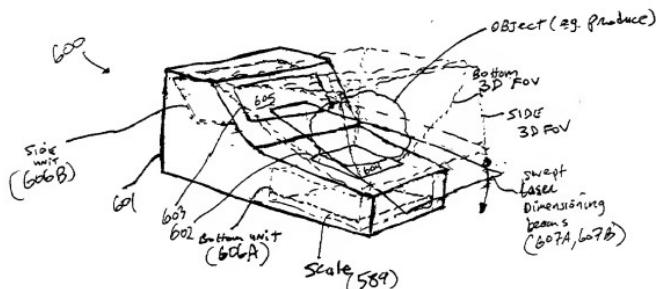


FIG. 34B

TRAILER" DETERMINED

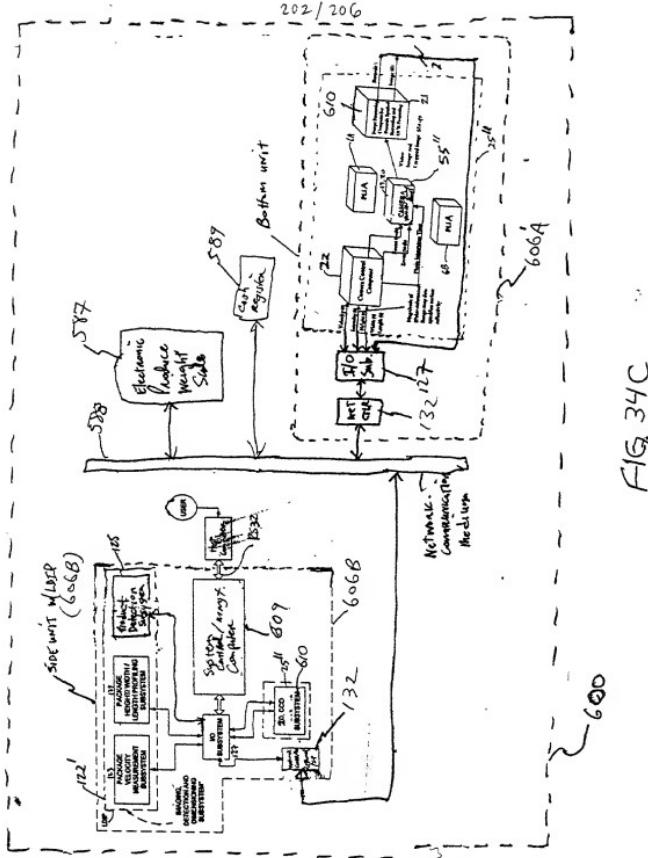
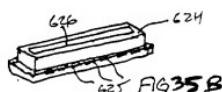
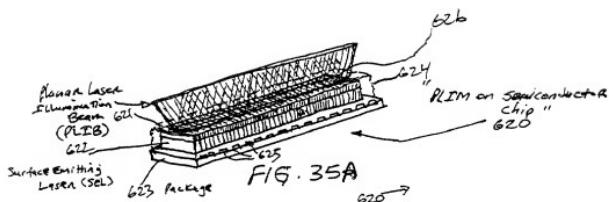


FIG. 34C

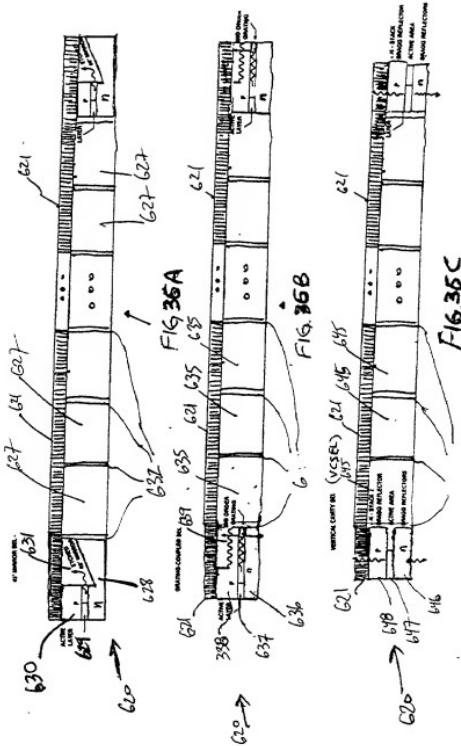
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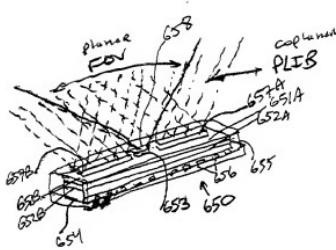


FIG. 37

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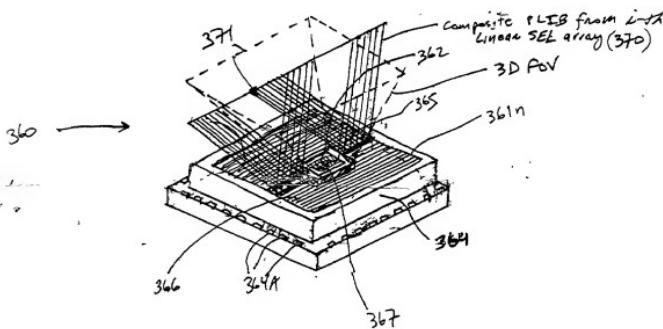


FIG. 38A

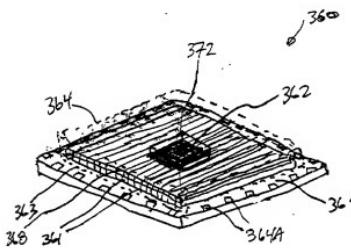


FIG. 38B